

19970813.qrp v00\_n817.qrs.970813

>From ???@??? Thu Aug 14 01:27:05 1997  
Date: Wed, 13 Aug 1997 19:03:51 EDT  
Subject: QRP-L digest 817  
Message-Id: <97Aug13.190416edt.35471-39734+141@fidoii.cc.Lehigh.EDU>

QRP-L Digest 817

Topics covered in this issue include:

- 1) [24778] Anybody know about Filtech Filters?  
by jerome\_peters@el.nec.com
- 2) [24779] Q-multipliers  
by Bob Tellefsen-CNSE97 <Bob\_Tellefsen-CNSE97@email.mot.com>
- 3) [24780] FIRST REMINDER FOR THE SEPTEMBER SPARTAN SPRINT  
by Russ Carpenter <russ@natworld.com>
- 4) [24781] Re: Pixie 2 xtal source request  
by Ed Loranger <we6w@qsl.net>
- 5) [24782] F.S: OHR/St. Louis/49'er  
by k4zd@juno.com (Robert L Hanrahan)
- 6) [24783] Re: Resonant speaker tube  
by "Bob Kellogg" <ae4ic@nr.infi.net>
- 7) [24784] Re: (ANTS.) Gap antennas principles  
by Greg Newberry <newberry@cyberhighway.net>
- 8) [24785] RE: help identify parts  
by "Adam B. Kanis" <adam-kanis@uiowa.edu>
- 9) [24786] Battery Technology  
by n4so@juno.com (charles k brown)
- 10) [24787] AL7FS in Skagway Alaska - Part II  
by JLarsen@alascam.att.com
- 11) [24788] FS: MXM 40M xcvr \*\*REDUCED\*\*  
by N3BJ@aol.com
- 12) [24789] Fireball #199/Heath list  
by MNHopkins@aol.com
- 13) [24790] kid'-n-kit's  
by Niel Skousen <nskousen@scientech.com>
- 14) [24791] end of special fox  
by k8cv@juno.com (Walter D Amos)
- 15) [24792] St Louis Vertical???  
by ROBERT PENNEYS <radio@UDe1.Edu>
- 16) [24793] What's your favorite antenna book?  
by "Rick LaBanca" <rickl@loa.com>
- 17) [24794] Re: What's your favorite antenna book?  
by Greg Newberry <newberry@cyberhighway.net>
- 18) [24795] Re: What's your favorite antenna book?  
by "Phoenix Crystals" <phxtal@nava-link.net>
- 19) [24796] FS/FT HW-9 station

by "jerry" <jerry@otherside.com>  
20) [24797] ZM-1's  
by ROYGREGSON@aol.com  
21) [24798] Inventory Control Acromyns  
by Chris Trask <ctrask@primenet.com>  
22) [24799] Re: ZM-1's  
by Kory Hamzeh <kory@avatar.com>  
23) [24800] Painting PCBs  
by Larry Jones <ljones@flash.net>  
24) [24801] Re: 11V from 12V regulator (II)  
by Bill Meara <wmeara@erols.com>  
25) [24802] Re: 11V from 12V regulator (II)  
by dzn1@juno.com (Howard D Rubin)  
26) [24803] Re: ZM-1  
by FAITHD@dnr.state.wi.us (Don C. Faith III, AM/7, \ (608\ ) 267-3135)  
27) [24804] J. Lenk book not available  
by FAITHD@dnr.state.wi.us (Don C. Faith III, AM/7, \ (608\ ) 267-3135)  
28) [24805] clock and thunderstorm?  
by Arjen Raateland <Arjen.Raateland@vyh.fi>  
29) [24806] Re: Painting PCBs  
by Greg Newberry <newberry@cyberhighway.net>  
30) [24807] info Rohn towers  
by Bigbob97@aol.com  
31) [24808] Re: Map Help, MAPS: Altitude for Lat/Long  
by Ronald McConnell <rcmcc@lucent.com>  
32) [24809] GQ40, the great sound of CW!  
by Michael Keller <keller@ba-karlsruhe.de>  
33) [24810] Re: Map Help, MAPS: Altitude for Lat/Long  
by "James C. Owen, III" <owen@piper.eeel.nist.gov>  
34) [24811] FIRE BALL POPULAR  
by kreinbd@ccgate.dl.nec.com (David Kreinberg)  
35) [24812] CQWW still happening? QRPp category still in effect? Is it popular  
for QRPp?  
by "Bob Duckworth" <wb4mnf@atl.org>  
36) [24813] A Cat Named "Jake"  
by "Gary R. Hanson" <ghanson@uts.cc.utexas.edu>  
37) [24814] Re: A Cat Named "Jake"  
by James Parsons <k5rov@worldnet.att.net>  
38) [24815] Re: Resonant speaker tube  
by Steven Weber <kd1jv@moose.ncia.net>  
39) [24816] Re: What's your favorite antenna book?  
by SEAB&SHARON LYON <SSLYON@worldnet.att.net>  
40) [24817] Re: CQWW still happening? QRPp category still in effect? Is it  
popular for QRPp?  
by Paul Erickson <paul1@wizard.ucsf.sfu.ca>  
41) [24818] Ride to York, PA hamfest this SATURDAY?!?  
by Scott Rosenfeld NF3I <ham@w3eax.umd.edu>  
42) [24819] Help - Solar Activity

- by Brad Mugleston <bmug@gwl.com>
- 43) [24820] learning CW operating procedures  
by Jim Glover <psykey@okcforum.org>
- 44) [24821] "William T. Genter - Receiver Engr." <wgenter@naic.edu>: Fw:  
kiss your scanner and another freedom goodbye or,  
by ac4gt@juno.com (nathan c tart)
- 45) [24822] Re: Help - Solar Activity  
by Paul Harden <pharden@aoc.nrao.edu>
- 46) [24823] 38S Microphonic..found!  
by "D.K. Philbin" <dphilbin@slonet.org>
- 47) [24824] Re: MAPS  
by John Marshall <johnmars@mindspring.com>
- 48) [24825] Re: learning CW operating procedures  
by "Kevin F. Glynn" <KFGlynn@prodigy.net>
- 49) [24826] Inexpensive Antenna Mast  
by jerome\_peters@el.nec.com
- 50) [24827] Re: What's your favorite antenna book?  
by Ed Loranger <we6w@qsl.net>
- 51) [24828] Favorite antenna books  
by "David Maliniak" <dmaliniak@penton.com>
- 52) [24829] Re: Inexpensive Antenna Mast  
by ac4gt@juno.com (nathan c tart)
- 53) [24830] Re: learning CW operating procedures  
by Ed Loranger <we6w@qsl.net>
- 54) [24831] Re: J. Lenk book not available  
by Ed Loranger <we6w@qsl.net>
- 55) [24832] Unscribe  
by Andy Robertson <aarobert@spot.Colorado.EDU>
- 56) [24833] Q-multiplying heresy  
by Bob Tellefsen-CNSE97 <Bob\_Tellefsen-CNSE97@email.mot.com>
- 57) [24834] SST: User Input?  
by Ken Newman <n2cq@comten.com>
- 58) [24835] Filter Design Applet  
by Mike Robinson <miker@comlinear.nsc.com>
- 59) [24836] Re: Filter Design Applet  
by Ray Anderson <Raymond.Anderson@Eng.Sun.COM>
- 60) [24837] Re: Automatic Lightning Protection  
by ea8yu Goran <rodriguez@jet.es>
- 61) [24838] Re: learning CW operating procedures  
by Jess Gypin <jgypin@bi.com>
- 62) [24839] CQC Summer 1997 QSO Party  
by n4oln@juno.com
- 63) [24840] Re: Inexpensive Antenna Mast  
by wb2vuo@juno.com (William K Hibbert)
- 64) [24841]  
by Laird Jerman <ljerman@earthlink.net>
- 65) [24842] P43HK/QRP, 21059 kHz , 2133Z  
by Harvey Hetland <n6mm@earthlink.net>

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Date: Tue, 12 Aug 97 16:04:02 -0800  
From: jerome\_peters@el.nec.com  
To: <qrp-1@Lehigh.EDU>  
Subject: [24778] Anybody know about Filtech Filters?  
Message-ID: <9708128714.AA871427214@intermail.el.nec.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

Does anybody know where I might find information on FILTECH Filters. I have a couple with C.F.(Center Frequency?) 9.07MHz and 1.98MHz. The model numbers are 1351 and 767109. They are rectangular in shape 1.5"L x 0.75"W x 0.75H. They have a single input and output pin, looks like the metal case is grounded.

Could the 9.07Mhz one be used to improve my OHR100 40M rig?

Any information would be much appreciated.

Or, if these would be a particular value to anyone please let me know.

Thanks,

Jerome Peters  
KC6ENE

Phone: 408 588-6339  
Santa Clara, California.

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Date: Tue, 12 Aug 1997 16:03:00 -0500  
From: Bob Tellefsen-CNSE97 <Bob\_Tellefsen-CNSE97@email.mot.com>  
To: kd1jv@ncia.net (Receipt Notification Requested)  
Cc: qrp-1@Lehigh.EDU  
Subject: [24779] Q-multipliers  
Message-ID: <M2015488.001.tqb50.1.970812232328Z.CC-MAIL\*/OU=LMPCC4/OU=ILBB/

PRMD=MOT/ADMD=MOT/C=US/@MHS>

Steve:

Just catching up on some back QRP-L digests.

I sold an article to Popular Electronics on a solid-state Q multiplier a long time ago. It was published in 1962 or 1963 as I recall. Sent them a model which they gussied up with a jazzy knob to replace the one out of my junk box. Worked pretty good as I recall. Was intended for permanent install in a receiver, so used a resistor divider to bring B+ down to maybe 6 volts or so. They republished it in a semiannual experimenters' issue as I recall. The extra \$25 check went a lot farther back then. :-)

73, Bob N6WG

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Date: Tue, 12 Aug 97 16:23:11 -0700  
From: Russ Carpenter <russ@natworld.com>  
To: "QRP-L List" <qrp-l@Lehigh.EDU>  
Subject: [24780] FIRST REMINDER FOR THE SEPTEMBER SPARTAN SPRINT  
Message-ID: <199708122322.QAA23183@guppy.pond.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

The September Spartan Sprint will be held on September 1 (which is our standard date--the first monday of the month). We'll operate on two bands--40 and 20. DON'T WORRY IF YOUR STATION IS A BIT TUBBY. WE COMMEND THE WINNERS IN TWO CATEGORIES--POINTS, AND POINTS PER POUND.

If you are a newcomer to the Sprints, take a look at the introductory material at the end of this post.

1. Start at 9:00 PM EDT, 8:00 CDT, 7:00 MDT and 6:00 PDT.  
Finish at 11:00 PM EDT, 10:00 CDT, 9:00 MDT and 8:00 PDT.
2. The frequencies will be 7040+- KHz and 14,060+- KHz. (You may operate one or two bands--your choice.)
3. Exchange RST, SPC (state, province or country) and power output.
4. If you choose to call CQ, use the format "CQ SP".
5. You can take credit for working the same station on a second band.
6. To encourage QRPers to discover that there is life outside 40 meters,

we'll give double points for contacts on 20 meters.

After the contest, send Russ Carpenter, an e-mail with your total QSOs and the total weight of your station (i.e., the combined weight of the transmitter, receiver, key, keyer and battery). You may also include your comments from the soapbox. Russ' email address is russ@natworld.com.

As an alternative, you can use our automated Spartan Sprint report at the ARS web site. Just fill in a few boxes, click the "submit" button, and you're done! You can get directly to the report page with this URL: [http://www.natworld.com/ars/events/spartan/submit\\_spartan.html](http://www.natworld.com/ars/events/spartan/submit_spartan.html). Or you can take a more leisurely (and rewarding) stroll through the ARS site by going to the home page at <http://www.natworld.com/ars>.

\*\*\*\*\*

The Spartan Sprint is based on a simple but stimulating concept. We are encouraging all of you to cobble together the kind of station you'd use in a portable environment--lightweight transceiver, keyer, key, and battery. Then put that turkey on the air, and participate in a two hour sprint.

All operators are invited to play, whether or not they are members of Adventure Radio Society. Even if you don't have lightweight equipment, your participation will be rewarding, both for you and the other participants. We'll report the score in two different formats--absolute scores, and points per pound of station weight. So you can get your kicks from running up a magnificent score, or achieving an remarkable ratio of points per pound.

<P>

ARS provides handsome certificates to the operators who achieve the top two scores in points, and points per pound.

If you're thinking about becoming a member of Adventure Radio Society, just send Richard Fisher (our membership chairman) an e-mail expressing your interest. Richard's e-mail address is KI6SN@juno.com. Membership is free, and the organization has a great group of men and women who combine their love of ham radio with their affection for the outdoors. You don't need to be a macho person; ARS welcomes people of all ages and levels of ability.

72, Russ Carpenter, AA7QU, Contest Manager  
russ@natworld.com

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Date: Tue, 12 Aug 1997 16:47:22 -0700

From: Ed Loranger <we6w@qsl.net>  
To: "charles k brown <WD6CCS@compuserve.com> Bill Hughes" <WD6CCS@compuserve.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [24781] Re: Pixie 2 xtal source request  
Message-ID: <33F0F60A.46AD@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Thanks to everyone who has helped getting Bill, WD6CCS,  
the information he needs on purchasing crystals.

It is nice to help out fellow hams!

What a great group you all are.

Thanks again, and I've forwarded the information to  
Bill.

=====

Summary:

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Dans Small Parts: <http://www.fix.net/dans.html>

Norcal orders: <http://www.fix.net/norcal.html>

Phoenix Crystals:

John R. Morris, N0ACS  
e-mail: [n0acs@juno.com](mailto:n0acs@juno.com)  
PHOENIX CRYSTALS  
1714 North Ash St.  
Nevada, MO 64772

Best Vibes -- Hi!

-Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.

QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok

<mailto:we6w@qsl.net> <http://www.qsl.net/we6w>

-----  
Date: Tue, 12 Aug 1997 20:10:50 EDT  
From: [k4zd@juno.com](mailto:k4zd@juno.com) (Robert L Hanrahan)  
To: [qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)  
Subject: [24782] F.S: OHR/St. Louis/49'er

Message-ID: <19970812.201552.8239.0.k4zd@juno.com>

Lucky QRP'ers,

Due to a rather negative medical report I just received, I need to transfer ownership of a few select QRP items to a deserving and lucky member of the list. Therefore, consider the following for your shack.

1. OHR Explorer II (20 meters) @ \$75.00 pp
2. OHR Explorer II (30 meters) @ \$75.00 pp  
(Both rigs in nearly unused perfect working condition)
3. St. Louis Tuner Kit (in pouch, that means original kit, unbuilt @ \$75.00 pp
4. 49'er Kit (again in pouch, unbuilt @ \$25.00 pp

Notes:

pp= paid shipping by U.S. Postal Service, sorry NO UPS COD orders accepted!

Contact Bob Hanrahan-K4ZD  
e-mail: k4zd@juno.com

-----  
Date: Tue, 12 Aug 1997 19:24:49 -0400  
From: "Bob Kellogg" <ae4ic@nr.infi.net>  
To: <pat@vtpo1.genrad.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [24783] Re: Resonant speaker tube  
Message-ID: <199708130019.UAA30974@mh004.infi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Gang,

Yes, I admit it, Ed beat me by 12 minutes with the stethoscope idea.

With regard to the stethoscope tube attenuating the signal - I think having the sound coming directly to the ear would far outweigh any attenuation due to the small tube. (in fact, I've had second thoughts about attaching the tube \*through\* the end of the resonant chamber. It might work as well to just attach the stethoscope to the chamber. Have you ever listened through a stethoscope?



CUL,  
Bob Kellogg, AE4IC, Greensboro, NC  
Probably, but not necessarily. -- Benny Hill

-----  
> >>solder a small (1/8'-1/4") tube about an inch long through the >bottom  
  
> of  
> >>the can? Then, get a cheap stethoscope from WalMart.  
> >  
> >Hey Bob, I beat you by 12 minutes on the Stethoscope idea! Hi!  
>  
> Why would stethoscope tubing not attenuate the same way the tin can/tuned  
  
> cavity does?

-----  
Date: Tue, 12 Aug 1997 18:16:11 -0600  
From: Greg Newberry <newberry@cyberhighway.net>  
To: rohre@arlut.utexas.edu  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [24784] Re: (ANTS.) Gap antennas principles  
Message-ID: <33F0FCCB.2AA6@cyberhighway.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

rohre wrote:

>  
> Well,  
> I guess we have a new batch of QRP-L folks on board so I will save them  
> looking up the Gap threads in the archives over the past three or so years,  
> and give the thumbnail version.  
>  
> The Gap vertical antennas are all simply dipoles, but vertical dipoles using  
> low loss linear decouplers for loading the different bands. These decouplers  
> are akin to stubs of open wire line we have used for years as matching devices  
> on various types of ham antennas. They just look more exotic when one side of  
> them is the vertical mast itself. They effectively form capacitors to shorten  
> various parts of the tubing to resonate on the higher bands.  
>  
> The use of the asymmetric elevated vertical dipole is a common Broadcast Band  
> antenna in places such as Argentina, and a paper on such appeared in the USA  
> IEEE Antenna Transactions publication some years back. I got a copy of this  
> paper from the Gap booth at Ham Com one year . For Broadcast work, you want

> to minimize ground losses, and have a good pattern in your coverage area,  
> which the vertical dipole brings without investment in radial systems and  
> ground screens. When you put the (40M) counterpoise wheel on the bottom of  
> the Gap Titan, you end up with not needing the same length each side of the  
> center insulator. Inside the Titan, (and I think other Gap models), there is  
> a coax stub for loading on the lowest band. To make the coax stub fit the  
> space inside the tubing, you have a capacitor across its upper end, with one  
> side and one side of the coax tied also to the upper dipole end. This matches  
> the antenna to your feed for 80M use over a greater than 100 kHz band. Other  
> bands are full coverage. (less than 2:1 SWR)

>

> Does it work? Yes indeed. As long as it is not coupling to something in the  
> near field it seems to bring a lot of nice QSO's and DX with its low angle  
> characteristic. It is stuck on a TV mast 6 feet above my back yard. As a  
> bonus, I have enjoyed good short skip QSO's within the state, or in nearby  
> states on 20M, where short skip was rare in the days I used low dipoles on  
> 20M. I have heard of interaction as with any vertical, if you have something  
> like a metal flue chimney nearby of a resonant length like 30M quarter wave.  
> Its bandwidth on 80M exceeds the specs, thus I have not used a tuner for any  
> band. It is full band coverage on 40M and up, and a tuner is not even  
> recommended. It is quite sturdy, having survived 45 mph winds that I was able  
> to document, and more recently, some straight line winds that felled taller  
> trees and limbs all around it during the Jarell TX tornados up the road from  
> me. The bottom tubing is triple walled, and thus requires a couple of big  
> folks to walk up, or three ordinary folks like most of us.

>

> I had an "all band" Hy Gain coil trap vertical before with ineffective ground  
> system. (I have mostly rocks under thin soil). The Gap works much better,  
> although a home made vertical could be made, for less money IF you had a  
> source for the aluminum tubing. (A BIG IF these days!!) If your time counts  
> for something, Gap solves the all band problem with a minimal investment of  
> time. However, I would like someone who has the time to sometime create a  
> home made vertical dipole set for all these bands, and see if the performance  
> is as good or ? I suspect the use of large tubing really is the full band  
> coverage secret, and just wire verticals hung from tree limbs might not equal  
> that aspect. But, one could use a cage of wire, and solve that issue.

>

> Hope this inspires some antenna experimenters. I did not hear about any Gap  
> beams at Ham Com this year and I always ask if I can be a beta-test site when  
> I see Richard! I think the Sommer beam does use this type of  
> loading/decoupling for band changing. That is a mighty beam, and some day, if  
> I ever get the space----

>

> 72 Stuart K5KVH  
> rohre@arlut.utexas.edu

Stuart,

Thanks for the information. Nice of you to take the time. One of the qrp-l members sent me the WWW address of the patent search office and I looked up the patent on the GAP antenna. It is 17 pages with descriptions, lines and arrows. Very interesting. Sounds different than you describe as they talk about a 'slot' radiating effect. New to me so I'm going to print and re-read your post.

There was a farmer/ham locally who took several sections of 4 in. irrigation tube a put up a 65 foot vertical with a good ground and I guess it worked very well. Broadbanded as well. It would be nice....

Thanks again

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-----  
|  Greg Newberry      newberry@cyberhighway.net  |  
|  WB7DUO QRP-L #760                               |  
|  NorCal #1899                                   |  
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Date: Tue, 12 Aug 1997 19:47:51 -0500  
From: "Adam B. Kanis" <adam-kanis@uiowa.edu>  
To: qrp-l@Lehigh.EDU  
Subject: [24785] RE: help identify parts  
Message-ID: <3.0.3.32.19970812194751.00696388@molsun.ophth.uiowa.edu>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

hi,

thanks for all the responses identifying the odd "coil-in-a-coil" parts that i got at the recent hamfest. i think i responded to all who wrote, and apologize if i missed anybody.

as you saw on the list, these are used as "variometers", and are used as variable coupling inductors, used in various tank circuits and for loading or trapping on antennas. so i've learned something new.

73,

--adam, n2brt  
adam-kanis@uiowa.edu

-----  
Date: Tue, 12 Aug 1997 20:42:02 EDT

From: n4so@juno.com (charles k brown)  
To: qrp-1@Lehigh.EDU  
Subject: [24786] Battery Technology  
Message-ID: <19970812.074011.7535.1.n4so@juno.com>

Subject: Re: Battery abuser question?

The magazine ELECTRONIC DESIGN frequently has articles on battery design, NiCd, NiMh, and Li-ion batteries and on rechargeable power options related mostly to portable computers but of course also to QRP radios.

Most of the articles are written by Senior Systems Engineers or Product/Development Engineers working in the battery industry.

Frye, D. , "Rechargeable Power Options for Portable Computers", ELECTRONIC DESIGN, Dec. 16, 1997, p. 105.

Wood, Stephen, "NiCd -- Still the Most Popular Low-Cost Battery Solution",

ELECTRONIC DESIGN, May 1997, p. 105.

For Manufacturers of Rechargeable batteries/ address and phone numbers....

Stolitza, Dale, "Smart Battery Standards Simplify Portable System Design",

May 1997, p. 115. (The addresses are on page 118.)

ELECTRONIC DESIGN, Penton Publishing Subscription Lockbox, P. O. Box 96732,

Chicago, IL 60693.

To paraphrase an article in ELECTRONIC DESIGN, May 1997, p. 105.

As for poor charge retention, the mechanism is a slow decomposition of the electrodes. This has no permanent affect after subsequent charging. Long storage periods, for over a year, may result in significant self-discharge and an increase in internal resistance.

The battery should be cycled, (charged and discharged) a few times to restore capacity.

The article's title is "NiCd, Still the Most Popular Low-Cost Battery Solution

by Stephen Wood.

Ken Brown, N4SO  
QTH nr Mobile, AL/ EM50tk  
qrp-1 #622  
n4so@juno.com

-----  
Date: Tue, 12 Aug 1997 16:50:56 -0800  
From: JLarsen@alasc.com  
To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>

Subject: [24787] AL7FS in Skagway Alaska - Part II  
Message-ID: <3FFF2C3C44B1D011899600A0245821700E909D@alascomexca.alascom.att.com>  
MIME-Version: 1.0  
Content-Type: text/plain

Well, I worked KA0TUP in St Louis, N6MM in Calif., and K7ZR in Seattle last night on 7.040. I did not do it QRP. I am running about 50 watts here and will continue to do so. I was suffering too much at QRP levels. Take a look at the topo maps of Skagway and all will be clear. Man-o-man are the mountains big AND close. Even the passage out of Skagway to the southish is long and narrow.

Band seems to be best for me on 40 at about 0345 to 0445Z so that is when I will concentrate tonight and other nights.

During the days here there is zero and I mean zero signals on any band. Well, I did hear one weak station on 10.103. BTW, my antenna is a 30-35 foot vertical mast on the back of the motorhome and tuned with the LDG autotuner (which BTW works great.). I may build a dipole to try for a higher take-off angle. I have the "stuff" with me to do that.

Am I still having fun....You bet! Took a fun hike out to a rocky point (Yakutania Point) today. Absolutely great!.

73,  
Jim  
AL7FS  
Skagway, Alaska

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Date: Tue, 12 Aug 1997 20:59:04 -0400 (EDT)  
From: N3BJ@aol.com  
To: qrp-l@Lehigh.EDU  
Subject: [24788] FS: MXM 40M xcvr \*\*REDUCED\*\*  
Message-ID: <970812205701\_-1304090694@emout03.mail.aol.com>

Above for sale, works, needs alignment, in case, with manual...

\$70 shipped

Alan, N3BJ

-----  
Date: Tue, 12 Aug 1997 20:54:05 -0400 (EDT)

From: MNHopkins@aol.com  
To: QRP-L@Lehigh.EDU  
Subject: [24789] Fireball #199/Heath list  
Message-ID: <970812205239\_2063417412@emout20.mail.aol.com>

The faithful will doubtlessly post before me that the Fireball was available commercially. In January, 1994 I received mine, #199, for \$26. Return on the envelop, not verified lately, was:

Smith Enterprises Fire-Ball  
48788 Silver Valley RC  
Newberry Springs CA 92365

Mine went to gether in about an hour and I placed it in the line between my kid's HR-10-B, a Heath RX from 1972, and a 75' wire in the attic which I tuned to 28.060. It got out and I QSO'd a local, but not by calling CQ DX. Was afraid to put it in line with my HB DC RX, but the Heath is indestructable.

Have been clearing out the ham junk in my attic, but did not even think of mentioning the Fireball in the list of Heathkit hangers-on that I attach to this free of charge.

73 de ab5l, michael in dallas, MNHopkins@AOL.com  
(below is the list of Heath junk you did not ask for:

I am selling most of my stuff and this is the first part of a list of what is left:

Heathkit

AG-9A Audio generator -- original, works, see SG-9a, below for its twin.

AM-2 SWR Meter -- the one with the incorrect reflected power scale.

AJ-31 FM Tuner -- looks OK in a '60s sort of way

BE-4 Battery eliminator -- without its cabinet and front panel is bent. Posts are gone, too, but rest looks present

CB-1 -- Much modified 11M lunchbox including a new meter on the front that required metal removal. Inside parts hang everywhere.

EU-41a -- S. State P/S with variable output 0-15VDC and current limiting. Broken, I cannot fix without a diagram but tsfmr is

OK.

DX-60B -- fairly nice one that I began converting to 6M plus parts of three other DX-60 and -60Bs--bypass or remove the PA for QRP

HW-16 -- extra hole in the panel and badly discolored case from a painting accident. A fugitive from a Georgia basement, we had it working once with Weiss' QRP mod.

HW-29a Sixer, sorta -- Case and chassis and RX completely gone and TX mounted on a couple of boxes attached to a 19 inch rack panel.

IP-2829 -- This is the blue and white version of the 0-15 VDC power supply that has become something of a QRP icon since once showed up on Lewallen's bench in Solid State Design.

Q-Multipliers -- A pair. One of the QF-1s that plug in to the rig for power and one of the later, lower (QF-11?) that has its own supply. The QF-1 is clearly used, the other much less so.

SG-8 RF Generator -- Original, works, see AG-9a above for its twin

APBs:

Searching for, but cannot today find:

1. An FM Tuner from the '50s

Nothing is priced 'cause I have not thought that far. I trade for 6M stuff mostly.

MNHopkins@AOL.com G-QRP #669, SMIRK #3002

-----  
Date: Tue, 12 Aug 1997 19:43:13 -0600  
From: Niel Skousen <nskousen@scientechn.com>  
To: qrp-1@Lehigh.EDU  
Subject: [24790] kid'-n-kit's  
Message-ID: <3.0.3.32.19970812194313.006b76d0@eaglerock.if.scientechn.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

to follow the thread.... My 6yr old son has for the last yr occupied the arm of the chair in the den when the iron's on. A couple of weeks ago when I'd just gotten back from a trip I got out the newly arrived SST to

relax... Well, after the 'Dad, can we do somthin' call and the guilt trip (was a two week trip...) he join'ed me to 'do somthin'...

Took a while but he learned to solder and trim the pcb (don't use a cut/crimp..) we finished the SST, and it worked first time power was applied. A little listening, some key-down to the load to test tx and boy was he excited.

I told him that the notes were letters... we'll see how long the interest lasts. Maybe we'll need a jr's qrp thingee in the next 6-12 mo :-), BUT I'm sure that Mike and Dennis (?) will agree. Building w/ harmonics was a neat way to finish a kit, a lot of fun, and even worth XYL brownie points.

72 Niel

-----

Date: Tue, 12 Aug 1997 15:19:26 GMT  
From: k8cv@juno.com (Walter D Amos)  
To: qrp-l@Lehigh.EDU  
Subject: [24791] end of special fox  
Message-ID: <19970813.014246.8582.0.k8cv@juno.com>

He went to Bermuda.....and got lost in the fox hole.....

Walt K8CV

-----

Date: Tue, 12 Aug 1997 22:12:36 -0400 (EDT)  
From: ROBERT PENNEYS <radio@UDe1.Edu>  
To: qrp-l@Lehigh.EDU  
Subject: [24792] St Louis Vertical???  
Message-ID: <199708130212.WAA15626@copland.udel.edu>

If someone might e-mail me info on the famous St. Louis Vertical for 40 meters, including mods such as the new coils from W6MMA, I would be most gwaterful.

Tnx and 72, Bob

-----

Date: Tue, 12 Aug 1997 21:58:28 -0400



From: "Rick LaBanca" <rickl@loa.com>  
To: "Qrp List" <qrp-l@Lehigh.EDU>  
Subject: [24793] What's your favorite antenna book?  
Message-ID: <199708130156.VAA43485@nss2.CC.Lehigh.EDU>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

This is a bit off topic, but then again, with qrp, the antenna really counts! I want to know what books you like, not for heavy theory, but just to get a bunch of ideas. I have to make something and want to investigate dipole alternatives. I was thinking of picking up the arrl antenna book, or is there some other gem I don't know about?

Rick kaleze

-----  
Date: Tue, 12 Aug 1997 21:25:21 -0600  
From: Greg Newberry <newberry@cyberhighway.net>  
To: rickl@loa.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [24794] Re: What's your favorite antenna book?  
Message-ID: <33F12921.704B@cyberhighway.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Rick LaBanca wrote:

>  
> This is a bit off topic, but then again, with qrp, the antenna really  
> counts! I want to know what books you like, not for heavy theory, but just  
> to get a bunch of ideas. I have to make something and want to investigate  
> dipole alternatives. I was thinking of picking up the arrl antenna book, or  
> is there some other gem I don't know about?  
>  
> Rick kaleze

Rick,

My favorites for ideas are the ARRL Antenna book and the Antenna compendiums #1-5. You may have them but I read them just for remembering old ideas that I have forgotten. A \_VERY\_ good book on verticals is The

Vertical Antenna Handbook by Paul H. Lee N6PL. Lots of good research and charts to apply to vertical antennas...

Hope this helps

```
-----  
| Greg Newberry      newberry@cyberhighway.net |  
| WB7DUO QRP-L #760 |  
| NorCal #1899      |  
-----
```

```
-----  
Date: Tue, 12 Aug 97 22:37:39 PDT  
From: "Phoenix Crystals" <phxtal@nava-link.net>  
To: newberry@cyberhighway.net, "Low Power Amateur Radio Discussion" <qrp-  
l@Lehigh.EDU>  
Subject: [24795] Re: What's your favorite antenna book?  
Message-ID: <MAPI.Id.0016.00687874616c20203030303630303036@MAPI.to.RFC822>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="ISO-8859-1"; X-MAPIextension=".TXT"  
Content-Transfer-Encoding: 7bit
```

Also Quad Antenna Book by Bill Orr.  
73 John

```
-----  
> Rick LaBanca wrote:  
> >  
> > This is a bit off topic, but then again, with qrp, the antenna really  
> > counts! I want to know what books you like, not for heavy theory, but  
> > just  
> > to get a bunch of ideas. I have to make something and want to  
> > investigate  
> > dipole alternatives. I was thinking of picking up the arrl antenna  
> > book, or  
> > is there some other gem I don't know about?  
> >  
> > Rick kaleze  
>  
> Rick,  
>  
> My favorites for ideas are the ARRL Antenna book and the Antenna  
> compendiums #1-5. You may have them but I read them just for remembering  
> old ideas that I have forgotten. A _VERY_ good book on verticals is The  
> Vertical Antenna Handbook by Paul H. Lee N6PL. Lots of good research and
```

> charts to apply to vertical antennas...  
>  
> Hope this helps  
>  
> -----  
> | Greg Newberry      newberry@cyberhighway.net      |  
> | WB7DUO QRP-L #760                                      |  
NorCal #1899
>

-----  
Date: Wed, 13 Aug 1997 01:05:43 -0500  
From: "jerry" <jerry@otherside.com>  
To: <qrp-l@Lehigh.EDU>  
Subject: [24796] FS/FT HW-9 station  
Message-ID: <199708130503.BAA04906@jupiter.otherside.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Gang,

I have a HW-9 station for sale or trade consisting of the HW-9 with WARC bands, HM-9 wattmeter, HFT-9 tuner and the PSA-9 power supply. Do not know what this gear is going for these days but I will not split it up. E-mail me direct with offers or queries. Always looking for good equipment, qrp or otherwise. Thanks

72/73  
Jerry  
WD9CTB

-----  
Date: Wed, 13 Aug 1997 01:32:29 -0400 (EDT)  
From: ROYGREGSON@aol.com  
To: qrp-l@Lehigh.EDU  
Subject: [24797] ZM-1's  
Message-ID: <970813013228\_1019827482@emout01.mail.aol.com>

Hi Gang.....Guess I have to bite the bullet and announce that the ZM-1 is to be no longer available. I have just a few left !

Seems that the poly tuning caps are no longer available from Mouser, and just had info from an electronics parts importer friend that the mfg in fact has discontinued that particular capacitor from his line. So it was a good little tuner, and a fun project for me. For those that would like to build their own, I'd recommend W6SAI's new "HF ANTENNA HANDBOOK" He has done an excellent chapter on Z Matches, and Charlie Lofgren W6JJZ, also has several outstanding articles on building Z Matches in QRP ARCI ! The dual section 300+pf per section variable capacitor is the heart of a Z Match, and hard to find. But "Fair Radio sales" has some. Of course this would be for a QRO size. I'm working on a QRO version too, some minor parts problems, but almost ready for production !

Thanks to all those that passed along the wonderful feedback on the ZM-1, it was ego-building to say the least.

72's/73's Roy

-----  
Date: Tue, 12 Aug 1997 22:49:19 -0700 (MST)  
From: Chris Trask <ctrask@primenet.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [24798] Inventory Control Acromyns  
Message-ID: <Pine.BSI.3.96.970812223816.8735A-100000@usr05.primenet.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I realize that this is off-topic, but it came to mind in a conversation yesterday that the UPS strike is dealing the final death blow to Just In Time (JIT) inventory control, which a lot of us have learned to despise. Therefore, I'd like to find out, just like with the earlier colour code discussion, what other names there are for this, such as:

1. JIT Just In Time (the original)
2. TFL Too &\$\$#! Late (old standby)
3. JNT Just Not There (latest version)
- 4.

Disclaimer: I know that the strike is hurting a lot of good working people, and I'm not trying to make light of their predicament. I've just never cared much for JIT and the added stress it causes, and I'll

be glad to see it go.

Regards,

Chris

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## Circuit Design for the RF Impaired

Chris Trask / N7ZWY  
Principal Engineer  
ATG Design Services  
P.O. Box 25240  
Tempe, Arizona 85285-5240

Technical Editor,  
QRP Quarterly  
QRP ARCI 9464

Email: [ctrask@primenet.com](mailto:ctrask@primenet.com)

Graphics by Loek Frederiks

Date: Tue, 12 Aug 1997 23:02:03 -0700 (PDT)  
From: Kory Hamzeh <kory@avatar.com>  
To: ROYGREGSON@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [24799] Re: ZM-1's  
Message-ID: <Pine.BSI.3.91.970812230036.16923A-100000@avatar.avatar.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 13 Aug 1997 ROYGREGSON@aol.com wrote:

```
> Hi Gang.....Guess I have to bite the bullet and announce that the ZM-1 is to
> be no longer available. I have just a few left !
>
> Seems that the poly tuning caps are no longer available from Mouser, and just
> had info from an electronics parts importer friend that the mfg in fact has
> discontinued that particular capacitor from his line. So it was a good little
> tuner, and a fun project for me. For those that would like to build their
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> own, I'd recommend W6SAI's new "HF ANTENNA HANDBOOK" He has done an excellent  
> chapter on Z Matches, and Charlie Lofgren W6JJZ, also has several outstanding  
> articles on building Z Matches in QRP ARCI ! The dual section 300+pf per  
> section variable capacitor is the heart of a Z Match, and hard to find. But  
> "Fair Radio sales" has some. Of course this would be for a QRO size.  
> I'm working on a QRO version too, some minor parts problems, but almost ready  
> for production !  
>  
> Thanks to all those that passed along the wonderful feedback on the ZM-1, it  
> was ego-building to say the least.  
>  
> 72's/73's Roy  
>  
>

RF Parts also sells a QRO version (part number CN117). It has a built in  
8:1 vernier drive, which makes it nice since the ZM-1 can be very sharp.

Kory

-----  
Date: Wed, 13 Aug 1997 01:24:55 -0500 (CDT)  
From: Larry Jones <ljones@flash.net>  
To: qrp-l@Lehigh.EDU  
Subject: [24800] Painting PCBs  
Message-ID: <199708130624.BAA29683@endeavor.flash.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Greetings Gang...

Painting PCBs is just like painting any other kind of metal. First the surface must be cleaned of any flux, oil, acid, dirt or whatever. A good solvent to use is Acetone or Methal-ethel-keytone, a.k.a. MEK. You can buy the two products at any Home Depot. After cleaning the surface, lightly buff it with very fine sandpaper or steel wool. Again, clean with solvent. Do all cleaning with the solvents in a well ventulated place. The fumes can really get to you. Also, this stuff is very volatal. That is it will flash burn very quickly is gotten near any flame. I even saw some of it flash burn on a guy who had mistakenly put it on a polyester rag and then rub the metal surface he was cleaning. Static spark set it off is all that we could tell it could have been. Also, it burns very hot and it is very hard to see the flame. It can burn you before you even see the flame. I can not over stress being very careful with this stuff. Now spray on a light coating of zinc chromate primer (some auto primers will work also). The primer does not have

to be heavy. You should still be able to see the color of the metal thru the coating. Let it dry completely before applying your first base coat. Each coating should be just a fine layer of paint. Keep layering on the paint until you reach the surface you desire. By layering on fine coats, you run a lesser risk of a run. Oh, also sand or steelwool between each layer, but ever so lightly. You can use auto polishing compound on the final coat to really put a shine on the last finish.

A second method is to wipe on viniger after cleaning and buffing the metal. It performs a slight acid etch to the surface. Than paint as usual. I have used this method but the results are not as good as going the long route. I learned about finishing metals while working for the aircraft industry for about 10 years. There, if it is made out of metal, they have tried to beat and bash and paint to cover with the best of them.

Hope this helps.

72/73 & God Bless...

---

Larry Jones N50SG <><	EM12QU
4028 Random Circle	96.62 W LONG
Garland Tx 75043-3250	32.87 N LAT

-----  
"The surest sign that intelligent life exists elsewhere in the universe is that it has never tried to contact us." - Bill Watterson, CALVIN & HOBBS  
-----

-----  
Date: Wed, 13 Aug 1997 05:20:06 -0400  
From: Bill Meara <wmeara@erols.com>  
To: n4so@juno.com (charles k brown)  
Cc: qrp-1@Lehigh.EDU  
Subject: [24801] Re: 11V from 12V regulator (II)  
Message-ID: <199708130924.FAA15315@smtp1.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 09:06 PM 8/12/97 EDT, you wrote:

>Did you get this worked out?

>What was the outcome?

>

>Ken Brown, N4SO

>

Ken: Thanks to all the FB help that I got from hams on the net I was able to resolve the problem. I put two diodes in series between the regulator's ground terminal and ground. This raised the output voltage to just under 12

volts.

The regulator is still running a bit hot. I put some additional heat sink protection on it but I still want to cool things down a bit. I'm considering trying to take some turns off the transformer secondary to get the input voltage to the regulator closer to an optimal value.

Thanks!

>  
73 de N2CQR  
Bill Meara, Falls Church, Virginia  
wmeara@erols.com  
<http://www.mindspring.com/~johnmb/billm.htm>

-----  
Date: Wed, 13 Aug 1997 05:58:27 -0400  
From: dzn1@juno.com (Howard D Rubin)  
To: wmeara@erols.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [24802] Re: 11V from 12V regulator (II)  
Message-ID: <19970813.055838.10158.1.dzn1@juno.com>

Bill,

I have not followed this stream from the beginning, so I may be repeating comments previously noted.

To minimize the power dissipated in series pass regulators, you must reduce the input voltage to approximately 3 volts above the regulated output voltage. This is known as the "head room" of the regulator. The power dissipation of these devices is rated in mW or watts, depending on package. The T0220 is rated at less than 20 watts, depending on heat sinking. The junction temperature MUST be less than 175 degree C. For the T0220, the thermal coefficient junction to case is typically 3 degrees / W, whereas the thermal coefficient to ambient (assume 25 deg) is 50 degrees /watt. Therefore a T0220 regulator that is NOT heat sunk can dissipate a maximum of  $(175-25) / 50 = 3$  watts before destruction. Reduce that by a factor of two if you want it to last longer than a minute or two.

So a "1.5 amp" 12v T0220 regulator operating at 0.5 amp will be able to safely dissipate approx 1.5 watts in free air at room temperature and will require a head room of  $1.5 \text{ w} / 0.5 \text{ A} = 3+$  volts or less for safe operation. If you want to pass up to 1.5 amps, use a head room of more



than 3 volts or both, you MUST heat sink the device.

Good luck,  
Howard Rubin, N3FEL

On Wed, 13 Aug 1997 05:20:06 -0400 Bill Meara <wmeara@erols.com> writes:

>At 09:06 PM 8/12/97 EDT, you wrote:

>>Did you get this worked out?

>>What was the outcome?

>>

>>Ken Brown, N4SO

>>

>Ken: Thanks to all the FB help that I got from hams on the net I was  
>able

>to resolve the problem. I put two diodes in series between the  
>regulator's

>ground terminal and ground. This raised the output voltage to just  
>under 12

>volts.

>

>The regulator is still running a bit hot. I put some additional heat  
>sink

>protection on it but I still want to cool things down a bit. I'm

>considering trying to take some turns off the transformer secondary to  
>get

>the input voltage to the regulator closer to an optimal value.

>

>Thanks!

>

> >

>73 de N2CQR

>Bill Meara, Falls Church, Virginia

>wmeara@erols.com

><http://www.mindspring.com/~johnmb/billm.htm>

>

>

>

-----  
Date: Wed, 13 Aug 1997 05:45 CDT

From: FAITHD@dnr.state.wi.us (Don C. Faith III, AM/7, \ (608\ ) 267-3135)

To: roygregson@aol.com

Cc: qrp-1@Lehigh.EDU

Subject: [24803] Re: ZM-1

Message-ID: <009B8B34833B69F4.42C8@dnr.state.wi.us>

A compilation of Charlie Lofgren's articles on the Z-match tuner may also be found on the web at:

<http://www.pconline.com/~rohrwerk/k0jd/z-match.html>

Sorry to hear that a replacement to those little caps are not to be found. I just got a little RF signal generator kit from Transtronics ( <http://www.xtrronics.com/> ) that uses the same capacitor (the kit also uses all of those little trimmer capacitors on the back of the cap.). 73 de N9WR, Don C. Faith

-----

Date: Wed, 13 Aug 1997 07:09 CDT  
From: FAITHD@dnr.state.wi.us (Don C. Faith III, AM/7, \((608\) 267-3135)  
To: qrp-1@Lehigh.EDU  
Subject: [24804] J. Lenk book not available  
Message-ID: <009B8B4055A3D9D4.86D7@dnr.state.wi.us>

Decided to try and order the book mentioned on the list a day or so ago and received this reply:

From: SMTP%"orders@amazon.com" 13-AUG-1997 07:01:21.49  
To: Faithd@dnr.state.wi.us  
CC: orders@amazon.com  
Subj: Your Amazon.com order

We have contacted the publisher by phone, and are sorry to report that the following title is in fact NOT AVAILABLE at this time:

John D. Lenk "Handbook of Simplified Solid State Circuit Design"

This unavailable item has been deleted from your order.  
Your credit card will NOT BE CHARGED for this item.

We expend significant effort keeping abreast of prices and availabilities, but our reliance on publishers for information about the books they print guarantees that, occasionally, our database will not reflect all changes.

Your order has been cancelled.

Thanks for shopping at Amazon.com Books, and we hope to see you again!

Sincerely,

Customer Service Department  
Amazon.com Books  
<http://www.amazon.com/>

-----  
Date: Wed, 13 Aug 1997 15:17:45 +0300  
From: Arjen Raateland <Arjen.Raateland@vyh.fi>  
To: QRP-L <QRP-L@Lehigh.EDU>  
Subject: [24805] clock and thunderstorm?  
Message-ID: <33F1A5E9.3EA2@vyh.fi>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

Hi,

Yesterday there was a rather severe thunderstorm again over this area. I was at home and didn't see myself what happened, but today my digital clock in the shack (at work) was about 7 hours ahead of the correct time. I've noticed this one time before after a shorter thunderstorm. That time it was only minutes ahead.

The clock is a Whiterook clock running on 50 Hz 230 V line power with Xtal based battery back-up. Functions vy OK when no thunderstorms.

Would anybody have a clue as to if there is something I could do to make the clock less sensitive. The clock is situated near to the antenna feed. Many of you have lots of thunderstorms where you live. Most will have an antenna feed and a clock in the shack, too.

73, oh2zaz

--

Arjen Raateland  
Finnish Environment Institute  
SAS Support  
phone +358 9 4030 0457

-----  
Date: Wed, 13 Aug 1997 06:29:59 -0600  
From: Greg Newberry <newberry@cyberhighway.net>

To: ljones@flash.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [24806] Re: Painting PCBs  
Message-ID: <33F1A8C7.75F@cyberhighway.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

> Greetings Gang...

>

> Painting PCBs is just like painting any other kind of metal. First the  
> surface must be cleaned of any flux, oil, acid, dirt or whatever. A good  
> solvent to use is Acetone or Methal-ethel-keytone, a.k.a. MEK. You can buy

Thanks for the post. It'll be a great help to me for sure!

--

```
-----  
|  Greg Newberry      newberry@cyberhighway.net  |  
|  WB7DUO QRP-L #760                               |  
|  NorCal #1899                                   |  
-----
```

-----  
Date: Wed, 13 Aug 1997 08:52:32 -0400 (EDT)  
From: Bigbob97@aol.com  
To: QRP-L@Lehigh.EDU  
Subject: [24807] info Rohn towers  
Message-ID: <970813085231\_788533656@emout16.mail.aol.com>

Hello Folks,

Does anyone have an email address or phone number for Rohn towers? Doesn't seem to be in their ads! Thanks,

73,

Bob WB2DHK in Jersey City, NJ

-----  
Date: Wed, 13 Aug 1997 09:01:20 -0400  
From: Ronald McConnell <rcmcc@lucent.com>  
To: "'ccart@vidtel.com'" <ccart@vidtel.com>, "'qrp-l@lehigh.edu'"@nss2.CC.Lehigh.EDU, <qrp-l@Lehigh.EDU>  
Cc: "'Ronald McConnell'" <rcmcc@lucent.com>  
Subject: [24808] Re: Map Help, MAPS: Altitude for Lat/Long  
Message-ID: <01BCA7C7.78535930@adc\_lab9.amc.bell-labs.com>

Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Chris,

The USGS GNIS Query site give altitude for the location  
in addition to Lat/Long and other stuff.

<http://www-nmd.usgs.gov/www/gnis/gnisform.html>

It will also let you search for named features between  
an elevation range, like 2000 to 3000 feet.  
Have you had a chance to play with that?

73,

Ron McConnell, w2iol

-----  
Date: Wed, 13 Aug 97 15:03:48 +0200  
From: Michael Keller <keller@ba-karlsruhe.de>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [24809] GQ40, the great sound of CW!  
Message-ID: <199708131319.JAA29318@nss2.CC.Lehigh.EDU>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

hi folks,

I am using a GQ40 qrp CW trx (HANDS Electronik), a realy nice rig with  
a very excellent RX (infos: <http://qrp.cc.nd.edu/kanga/gq.html>).

I had allready several contacts with a GP (butternut) from  
EU to VE, W stations with only 3 W power on 40m.

The problem:  
the charakteristik of the keying, it sounds a little bit smeared and if you  
are keying faster than 20wpm it becomes more and more difficult to pick up  
the CW.

keying is done by directly switching a XO.

has anybody the same rig with the same problem and has a

possible modification which allows a cleaner keying characteristic?

Any suggestions are welcome

73 de Mike (DL6iAK)

e-mail: michael.keller@gmx.net

-----  
Date: Wed, 13 Aug 1997 09:33:21 -0500 (EST)  
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>  
To: qrp-l@Lehigh.EDU  
Subject: [24810] Re: Map Help, MAPS: Altitude for Lat/Long  
Message-ID: <34402.owen@piper.eeel.nist.gov>

In message Wed, 13 Aug 1997 09:01:20 -0400,  
Ronald McConnell <rcmcc@lucent.com> writes:

> The USGS GNIS Query site give altitude for the location  
> in addition to Lat/Long and other stuff.

>

> <http://www-nmd.usgs.gov/www/gnis/gnisform.html>

>

This is a great site but note that the address is being changed. The above  
address will work for a while but the new one is <http://www.mapping.usgs.gov>  
this is for the main site. Select gnis for the maps. 73 Jim K4CGY

-----  
Date: Wed, 13 Aug 1997 08:39:56 -0500  
From: kreinbd@ccgate.dl.nec.com (David Kreinberg)  
To: qrp-l@Lehigh.EDU  
Subject: [24811] FIRE BALL POPULAR  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
Content-Description: cc:Mail note part

Gang,

Judging from the many responses I received, I'd say  
the little Fire Ball transmitter was a big success.

I'm wondering if the company/person who kitted them is still around? I've looked at TTL crystal oscillators and the only popular ham frequency available is 28.322 MHz. All others are outside the ham bands.

Thanks for the interesting stories. Seems like those who've used them really got a big kick from working the world with mere milliwatts. I've yet to do any great things on 10 meters, but everyone says it is nothing short of miraculous in the peak years.

BTW - 17m showing signs of life. Worked NH from TX with 4 watts last night. Where the heck is Cycle 23?

Impatiently waiting for the sun to juice .....

73 de Dave NR3E/5  
nr Dallas, TX  
qrp-1 #25, ARRL  
WIMPS: Qs=056 30m=041 17m=10 12m=05 States=027/06/04  
DX=02/01/01

-----  
Date: Wed, 13 Aug 1997 10:35:03 +0100  
From: "Bob Duckworth" <wb4mnf@atl.org>  
To: "<" <qrp-1@Lehigh.EDU>  
Subject: [24812] CQWW still happening? QRPP category still in effect? Is it popular for QRPP?  
Message-ID: <199708131331.JAA18239@atl.org>

I was looking through an old CQ mag this AM and was reading about CQWW and QRPP category and thought it might be fun to do the CW portion.

A couple of questions came to mind though.

- 1) Is it a popular QRP event?
- 2) What have 40m scores been lately?
- 3) Is 5 Watt category popular (this is the one I'm considering)

-bob  
wb4mnf

-----

Date: Wed, 13 Aug 1997 08:58:46 -0500  
From: "Gary R. Hanson" <ghanson@uts.cc.utexas.edu>  
To: qrp-1@Lehigh.EDU  
Subject: [24813] A Cat Named "Jake"  
Message-ID: <33F1BD08.68FD@uts.cc.utexas.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: 8bit

Hey Gang,

Just about the time you thing the ham fraternity has become hardened, competitive, slanderous and aggressive, you have a QSO like I had last evening.

About 6:30 pm local I heard a nice strong 20 meter CQ coming out of California so I responded. The op at the other end was a 9 year girl named Lauren who was sending a very crisp 13 wpm and copying everything I had to say. Instead of telling me about her rig, antennas and the weather, she proceeded to tell me about her cat named "Jake". Her radio room had a bad cat "infestation" [big word for a fourth grader, I thought.] I learned that Jake played with the key while she was sending, that he often bit her and he was one nosy, nasty cat. I told her about Cali and Lilly, my cats, who licked my nose to wake me up in the morning. She enjoyed my story. Our QSO was cut short when Lauren's mother insisted that "chores" and fourth grade homework came before operating the radio. She didn't want to leave, but signed 73 and blew me an 88 across the 1200 miles.

As I filled in the log later, I had a really warm glow. In what other hobby would a bright-eyed fourth grader and a slightly grizzled, 54 year old man find a way to talk about a cat named "Jake?"

Isn't this hobby grand?

Gary, KJ5VW

-----  
Date: Wed, 13 Aug 1997 09:13:57 -0500  
From: James Parsons <k5rov@worldnet.att.net>  
To: ghanson@uts.cc.utexas.edu  
Cc: qrp-1@Lehigh.EDU  
Subject: [24814] Re: A Cat Named "Jake"  
Message-ID: <33F1C125.5C54@worldnet.att.net>  
MIME-Version: 1.0



Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gary R. Hanson wrote:

>  
> Hey Gang,  
>  
> Just about the time you think the ham fraternity has become hardened,  
> competitive, slanderous and aggressive, you have a QSO like I had last  
> evening.  
>  
> About 6:30 pm local I heard a nice strong 20 meter CQ coming out of  
> California so I responded. The op at the other end was a 9 year girl  
> named Lauren who was sending a very crisp 13 wpm and copying everything  
> I had to say. Instead of telling me about her rig, antennas and the  
> weather, she proceeded to tell me about her cat named "Jake". Her radio  
> room had a bad cat "infestation" [big word for a fourth grader, I  
> thought.] I learned that Jake played with the key while she was  
> sending, that he often bit her and he was one nosy, nasty cat. I told  
> her about Cali and Lilly, my cats, who licked my nose to wake me up in  
> the morning. She enjoyed my story. Our QSO was cut short when Lauren's  
> mother insisted that "chores" and fourth grade homework came before  
> operating the radio. She didn't want to leave, but signed 73 and blew  
> me an 88 across the 1200 miles.  
>  
> As I filled in the log later, I had a really warm glow. In what other  
> hobby would a bright-eyed fourth grader and a slightly grizzled, 54 year  
> old man find a way to talk about a cat named "Jake?"  
>  
> Isn't this hobby grand?  
>  
> Gary, KJ5VW

Gary, your story is most heartwarming. I made a copy of your message and showed it to my XYL. She, the daughter of an SK ham from the 20's, and the mother of a ham, thought it was just wonderful.

I am a CW operator, and have been hamming for 57 years. I get very worried when I realize that most of the CW operators I talk to are 70 and above. How great it is to know that a very young generation is coming along to take our place.

Yes, its a great hobby, and this country still has a lot of great kids!

Thanks for sharing...

Jim, K5ROV

--

James (Jim), Parsons, K5ROV USAF, Ret.  
k5rov@worldnet.att.net QCWA, NWQRP, Fists, ARRL  
EX: W1RLA, K5FBB, K4FEO, SVOWN (CRETE), SVOWN (RHODES),  
DL4NC, DL4JP, KA2FC (JAPAN), KA2JP (JAPAN).  
JOHN 3:16

-----  
Date: Wed, 13 Aug 1997 10:34:05  
From: Steven Weber <kd1jv@moose.ncia.net>  
To: qrp-l@Lehigh.EDU  
Subject: [24815] Re: Resonant speaker tube  
Message-ID: <3.0.1.16.19970813103405.2ea71dfe@mailhost.ncia.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>Yes, I admit it, Ed beat me by 12 minutes with the stethoscope idea.

I can just see it...Some OM sitting at a park picknic table with a little  
QRP rig and some tin cans and a stethoscope in his ears.

Kid walks by and says "Mommy whats that man doing?" Mommy says " Come along  
son, that old man must be trying to talk to aliens"

73,

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

-----  
Date: Wed, 13 Aug 1997 15:40:14 +0000  
From: SEAB&SHARON LYON <SSLYON@worldnet.att.net>  
To: rickl@loa.com, qrp-l@Lehigh.EDU  
Subject: [24816] Re: What's your favorite antenna book?  
Message-ID: <19970813154012.AAA20494@LOCALNAME>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Rick, if you haven't bought an ARRL ANT. HBK. in a few years,  
it is a definite MUST! Even the folks who don't seem to like

ARRL per se, agree. The software alone is worth the \$30 and I personally have learned a lot from the sections on wire ants. My Sterba Curtains speak for themselves! 73 =s=

.....

At 01:58 AM 8/13/97 +0000, you wrote:

> This is a bit off topic, but then again, with qrp, the antenna really  
> counts! I want to know what books you like, not for heavy theory, but just  
> to get a bunch of ideas. I have to make something and want to investigate  
> dipole alternatives. I was thinking of picking up the arrl antenna book, or  
> is there some other gem I don't know about?

>  
>Rick kaleze

>  
>  
>  
>  
>  
>

"Seab" Lyon -- AA1MY  
Bethel, CT; USA FN-31-HJ  
ARCI #9253; QRP-L # 574  
NEQRP# 511; ARRL; QCWA;  
C.A.R.A.

-----

Date: Wed, 13 Aug 97 8:17:19 PDT  
From: Paul Erickson <paul1@wizard.ucs.sfu.ca>  
To: wb4mnf@atl.org  
Cc: qrp-l@Lehigh.EDU (qrp)  
Subject: [24817] Re: CQWW still happening? QRPP category still in effect? Is it popular for QRPP?  
Message-ID: <9708131517.AA08312@wizard.ucs.sfu.ca>

Hi Bob,

Jump on in, the water is fine!!! This is a great contest! A number of us on this list have fun with this one. I had a great time a couple of years ago with my hw-8 and a 40ft vertical. I thought I'd just try to make a few Q's and ended up with about 130. Biggest thrill of that one was working HH2PK on 15mtrs with 1.5 watt. After you get the swing of things, you may even learn the secret qrp technique of snatching stations off other peoples pileups... whoops, looks like I blew it again ;-). Note: don't do this unless you are comfortable with contest material at around 30wmp, otherwise you will be making a nuisance of yourself. I will send you the final posting of last years

scores from the Scores reflector.

cheers, Paul

ve7cqq

email: paul1@wizard.ucs.sfu.ca

>

> I was looking through an old CQ mag this AM and was reading  
> about CQWW and QRPP category and thought it might be fun  
> to do the CW portion.

>

> A couple of questions came to mind though.

> 1) Is it a popular QRP event?

> 2) What have 40m scores been lately?

> 3) Is 5 Watt category popular (this is the one I'm considering)

>

> -bob

> wb4mnf

>

>

>

>

-----

Date: Wed, 13 Aug 1997 10:19:33 -0400

From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>

To: qrp-l <qrp-l@Lehigh.EDU>, eax@w3eax.umd.edu

Subject: [24818] Ride to York, PA hamfest this SATURDAY?!?

Message-ID: <Pine.3.89.9708131031.D14642-01000000@w3eax.umd.edu>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

I'd like to go to this hamfest Saturday. Anyone else game? I'd hate to have a solo, 75-mile effort (each way).

\* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 \*  
\*\*\* 6m 75 grids worked on 8 watts \*\*\* HF 140 cfmd \* QRP-L #147 \*\*\*  
\*\* QRP ARCI #9054 \*\* DXCC/WAS/WAC \*\*\* 100% dipole powered HF/6m \*\*  
\* 301-549-1022 h / 301-982-1015 w \*\*\* Hamfest, life's simple joy \*

-----

Date: Wed, 13 Aug 1997 08:18:14 -0600

From: Brad Mugleston <bmug@gw1.com>

To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>

Subject: [24819] Help - Solar Activity  
Message-ID: <01BCA7C1.740BFA40@pps-pc10.gwl.com>  
Content-Type: text

I get a copy of the following report everyday, looks great and has lots of fantastic information. I could spend hours reading it over and over.

Could anyone tell me what it is I'm reading - change that, I know what I'm reading. Can anyone tell me how to interpret what I have read? This being a government document I'm sure there is something written somewhere that explains how to use it and interpret it.

thanks

de KB0ROL, Brad

:Product: Report of Solar-Geophysical Activity  
:Issued: 1997 Aug 12 2205 UT  
# Prepared jointly by the U.S. Dept. of Commerce, NOAA,  
#Space Environment Center and the U.S. Air Force.  
#  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

-----  
Date: Wed, 13 Aug 1997 11:29:24 +0000 (GMT)  
From: Jim Glover <psykey@okcforum.org>  
To: qrp-l@fidoii.CC.lehigh.EDU  
Subject: [24820] learning CW operating procedures  
Message-ID: <199708131129.LAA04397@okcforum.org>  
Content-Type: text

> After you get  
> the swing of things, you may even learn the secret qrp technique of  
> snatching stations off other peoples pileups... whoops, looks like  
> I blew it again ;-). Note: don't do this unless you are comfortable  
> with contest material at around 30wmp, otherwise you will be making  
> a nuisance of yourself.

When I got into amateur radio around 20 years ago, I did only a bit of CW work, mostly around 20 years ago. For the next few years after that, I guess I made a CW contact or two every few months, for about the next 5 years. Until a couple of weeks ago, I didn't work any CW for 15 years or so. So, I'm quite inexperienced at CW operating.

And now, when I read this sort of thing, it helps confirm a suspicion I've had...which is that working DX is mostly for experienced CW ops, and that the only road to experience, is to be on the air doing it for long enough to pick it up by monitoring others who already know the ropes.

Over the last couple of weeks, I've enjoyed about 20 CW qso's, and each of them has been with a US station, and has been a "formula" QSO (exchange RST, QTH, name, optional rig, ant, and WX info, and then, 73). In about 90% of these QSO's, the other station has cut it off with 73, as soon as the "basic info" has been exchanged. I was the one initiating the end of the contact, only when QSB had rendered the other station impossible to copy.

I posted here about a week ago, wondering if anyone could recommend stuff to read about CW operating procedures (other than the ARRL operating manual, which I do need to buy--but which, I have been told, offers advice which in many respects bears little resemblance to what is actually heard on the air). I received no responses to that post.

So...I guess what I'm doing now, is trying a little more long-winded approach. If I get no responses this time, I'll drop the subject and hush about it! :)

One thing I'd enjoy doing, is having more CW ragchew. I do realize that this would require some patience (both on my part, and especially perhaps for the other station) since it's easier to copy the formula QSO at a little faster speed (since 50% of what's sent is so predicatable...one simply must listen to "fill in the blanks"). Talking more, and slowing down the code speed a bit, would eat up a bunch of time (a luxury few of us have these days, it seems). But...like DX, I've heard that ragchew CW *\*does\** exist...and I'd like to find some of it! :)

I'd also like to work some DX, too...but I guess I have a lot to learn about the very different way that's done.

I wonder if there are certain bands, frequencies, and/or times of day, that I should try, to maximize my chances of catching DX and ragchewers on CW? And what sorts of alternative CW operating procedures might I need to become familiar with?

So...would anyone care to recommend things I should read, to help me learn faster than by trial and error on the air? Or would anyone care to haulf off and write a few paragraphs of advice, for the benefit of me and anyone else on the list who's wondering how to learn not only the code, but the operating procedures to

go with it?

--Jim

-----  
Date: Wed, 13 Aug 1997 12:50:32 EDT  
From: ac4gt@juno.com (nathan c tart)  
To: tenten-1@Lehigh.EDU, qrp-1@Lehigh.EDU, n4cii@amsat.org  
Subject: [24821] "William T. Genter - Receiver Engr." <wgenter@naic.edu>: Fw:  
kiss your scanner and another freedom goodbye or,  
Message-ID: <19970813.115259.4735.1.ac4gt@juno.com>

----- Begin forwarded message -----  
From: "William T. Genter - Receiver Engr." <wgenter@naic.edu>  
To: Amateur Radio Club <HAMRADIO@cornell.edu>  
Subject: Fw: kiss your scanner and another freedom goodbye or,  
Date: Wed, 13 Aug 1997 11:43:23 -0400 (GMT-0400)  
Message-ID: <199708131543.LAA24289@naic.edu>

-----Begin Included Message -----

Date: Wed, 13 Aug 1997 08:17:48 -0400  
From: Hector Cintron <kipdee@isla.net>  
To: pr-ham@mail.isla.net  
Cc:

Here's something interesting I found..

Date: Sun, 10 Aug 1997 21:56:00 -0600  
From: Sam Barricklow <sam.barricklow@DRIG.COM>  
Subject: kiss your scanner and another freedom goodbye or,

This rant is a little off topic, but it potentially affects every  
amateur radio operator and most, if not all non-Ham SKYWARN spotters.

#### Proposed Anti-Monitoring Law

Either kiss your scanner (and your wide frequency coverage HF, VHF or  
UHF receiver and XCVR) goodbye and get ready to lose another freedom or,  
pitch a canition fit NOW! If this law passes, the U.S. will be alone  
in the "free" world with the most restrictive and repressive  
communications law outside of RED CHINA!

These people in Washington have lost their %###@ minds. How the hell do

they plan to enforce a ban on monitoring? Is the FCC going to raid your home to check for and seize "illegal" radio equipment? Do they plan to put your Grandpa in jail for listening to the local police dispatcher?

It is already illegal to divulge information heard or use it for personal gain now! These guys need to enforce the laws that are on the books instead of dreaming up more and more repressive, unenforceable, useless laws! This law is coming to Congress because the Democrats played a cheap trick on Newt and, as a result, WE are going to lose another right - the right to do what we please with the electromagnetic waves that pass across our private property. (Anyone know if they prosecuted the couple who gave the tape of Newt to the news media? It sounded like they were doing more than just casual monitoring with your garden variety scanner. Anyone heard the rest of the story?)

These politicians need to conduct their sleazy deals in back alleys and in the dark corners of bar rooms instead of on the PUBLIC airways, where anyone can and should be able to listen. Maybe they wouldn't be so paranoid if they did! Besides, the monitoring of cellular phone calls will end as soon as the new digital modulation technology replaces the current FM analog modulation in use today. Their desire to protect their political deals and to protect the analog cellular phone industry is being overcome by events. (The analog cell phone industry sold the cell phone users a bill of goods if they guaranteed privacy. Their lobbyists are pushing this legislation big-time to cover their butts, at our expense.)

The news media better look at this one closely too. It will be illegal for them or anyone else outside of the government to monitor the local police for any reason, whether it's for traffic information or whatever. Unbelievable!

Oh yes, there is reported to be another crazy law in the works to allow local governments to regulate CB and other (Ham?) radio. Now what kind of mess can you expect with this - different laws when you pass from one town, county or state to the next. Congress needs to take a loooong vacation.

A few questions: If you stacked up all of the volumes and volumes of laws passed by Congress that are now in effect, how far into space would it reach? Would it rival the national debt? And, does anybody anywhere really know what ALL of them say? I wonder what percentage are actually enforced (or even can be enforced) on a regular or even infrequent basis? What other whacko laws are they creating that we haven't even heard of yet?

But, then again, maybe our elite politicians would be better served if



we common folk had no idea what they are doing or why.

We are entering the technological dark ages. I watched the Congressional hearings that preceded this proposed legislation. The ignorance of technology that was displayed by our representatives was unbelievable. The crass arrogance displayed by the analog cell phone lobbyist was nauseating.

Enough.

Here's the proposed anti-monitoring law and comments from Monitoring Times:

Here is the latest legislative threat to monitoring. Folks this bill is pure poison to all branches of radio. In particular, I'm extremely concerned with section 3 of this bill amending the Communications Act of 1934. Every radio listener and ham needs to contact their elected officials in Washington and voice opposition to this bill.

Unlike the Markey bill, HR 2369 does have cosponsors and given the timing in the legislative calendar, I feel it does have an excellent chance of getting through Congress this session. This bill has the same provisions in it as the Markey bill (HR 1964) plus the new language on scanner mods in section 1 and the new very restrictive language for the Comm Act of 34 in section 3. This effects every radio listener from shortwave right on up to the microwave regions. If you listen to something other than broadcast radio or television, ham or CB this bill could and probably will effect you.

Bottom line:

I will be posting additional info and analysis after we talk to the legal folks. On the surface, this doesn't look good at all. We are going to have a major fight on our hands here.

Best Regards,

Larry Van Horn  
Assistant Editor/Managing Editor  
Monitoring Times/Satellite Times  
P.O. Box 98  
Brasstown, NC 28902

<<<<Here is the bill -- snip

HR 2369 IH

105th CONGRESS

1st Session

To amend the Communications Act of 1934 to strengthen and clarify prohibitions on electronic eavesdropping, and for other purposes. IN THE HOUSE OF REPRESENTATIVES July 31, 1997 Mr. TAUZIN (for himself, Mr. MARKEY, Mr. OXLEY, Mr. GILLMOR, Ms. ESHOO, and Ms. MCCARTHY of Missouri) introduced the following bill; which was referred to the Committee on Commerce A BILL To amend the Communications Act of 1934 to strengthen and clarify prohibitions on electronic eavesdropping, and for other purposes.*[Italic-]* Be it enacted by the Senate and

House of Representatives of the United States of America in Congress assembled, [*<-Italic]*

SECTION 1. SHORT TITLE.

This Act may be cited as the 'Wireless Privacy Enhancement Act of 1997'.

SEC. 2. COMMERCE IN ELECTRONIC EAVESDROPPING DEVICES.

(a) PROHIBITION ON MODIFICATION- Section 302(b) of the Communications Act of 1934 (47 U.S.C. 302(b)) is amended by inserting before the period at the end thereof the following: ', or to modify any such device, equipment, or system in any manner that causes such device, equipment, or system to fail to comply with such regulations'.

(b) PROHIBITION ON COMMERCE IN SCANNING RECEIVERS- Section 302(d) of such Act (47 U.S.C. 302(d)) is amended to read as follows:

(d) The Commission shall prescribe regulations denying equipment authorization (under part 15 of title 47, Code of Federal Regulations, or any other part of that title) for any scanning receiver that is capable of-- '(1) receiving transmissions in the frequencies allocated to any commercial mobile service (as defined in section 332(d), '(2) readily being altered to receive transmissions in such frequencies,

e       ` (3) being equipped with decoders that  
convert digital commercial mobile service  
transmissions to analog voice audio, or

      ` (4) being equipped with devices that  
do not otherwise decode encrypted radio transmissions  
for the purposes of unauthorized  
interception.'.

(c) IMPLEMENTING REGULATIONS- Within 90 days  
after the date of enactment of this Act, the  
Federal Communications Commission shall  
prescribe amendments to its regulations for the  
purposes of implementing the amendments made by  
this section. In prescribing such amendments,  
and in response to subsequent changes in  
technology or behavior, the Commission shall  
review and revise its definition of the term  
'capable of readily being altered' as necessary  
to prevent commerce in devices that may be used  
unlawfully to intercept or divulge radio  
communication.

### SEC. 3. UNAUTHORIZED INTERCEPTION OR PUBLICATION OF COMMUNICATIONS.

(a) AMENDMENTS- Section 705 of the  
Communications Act of 1934 (47 U.S.C. 605)  
is amended--

(1) in the heading of such section, by inserting  
'interception or' after 'unauthorized';

(2) in the second sentence of subsection  
(a), by striking 'and divulge' and inserting  
'or divulge';

(3) in subsection (e)(1)-- (A) by striking  
'fined not more than \$2,000 or'; and

(B) by inserting 'or fined under title 18,  
United States Code,' after '6 months,';  
and

(4) in subsection (e)(3), by striking 'any  
violation' and inserting 'any receipt,  
interception, divulgence, publication, or

utilization of any communication in violation'; and

(5) in subsection (e)(4), by striking `any other activity prohibited by subsection (a)' and inserting `any receipt, interception, divulgence, publication, or utilization of any communication in violation of subsection (a)'.

(b) RESPONSIBILITY FOR ENFORCEMENT-

Notwithstanding any other investigative or enforcement activities of any other Federal agency, the Federal Communications Commission shall investigate alleged violations of section 705 of the Communications Act of 1934 (47 U.S.C. 605) and may proceed to initiate action under section 503 of such Act (47 U.S.C. 503) to impose forfeiture penalties with respect to such violation upon conclusion of the Commission's investigation.

end

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Hector Cintron - N1TKK  
E-mail - kipdee@isla.net  
skywarn@isla.net

Puerto Rico SKYWARN Homepage - <http://skywarn.isla.net>  
Puerto Rico SKYWARN Mailing List - <http://skywarn.isla.net/maillist.html>  
Looking for a weather station? - <http://skywarn.isla.net/wx-equip.html>

I'm Hector Cintron from the clan Cintron, "There Can Be Only one"

@////////|=====

=\*

----- End of forwarded message -----

----- End forwarded message -----

-----  
Date: Wed, 13 Aug 1997 10:54:35 -0600  
From: Paul Harden <pharden@aoc.nrao.edu>  
To: bmug@gwl.com, qrp-l@Lehigh.EDU  
Subject: [24822] Re: Help - Solar Activity  
Message-ID: <199708131654.KAA02937@zia.aoc.nrao.edu>

Here's a short summary I posted to QRP-L some time ago that attempts to explain some of the solar activity measurements reported. Hopefully it will help explain some of those numbers.

72, Paul NA5N

-----  
Brief Solar/geomagnetic propagation description.

HF propagation is best during an active sun - low to disrupted during a quiet sun. If plotted, solar activity forms a sine wave with a period of 7-11 years. We are currently at the very bottom of the solar cycle. The most rudimentary method of measuring solar activity is the sun spot count. An active sun produces 100-200 (or more) sun spots a day, while a very quiet sun is 10-20. Sun spot records have been kept for centuries.

More modern methods include measuring the radio output of the sun at different frequencies, 10.7cm the most common. The higher the sun spot number, the higher the solar flux numbers. The 10cm solar flux is measured by numerous agencies around the world on a daily (and hourly) basis. The rate at which our ionosphere is ionized (charged with free electrons) is a function of solar flux output. The more ionized the "E" and "F" layers are, the more reflective they are to HF signals and will reflect higher frequencies (the MUF or maximum usable frequency reflected). A high solar flux means good reflectivity and a high MUF. Low solar flux means poor reflectivity and a low MUF (sometimes MUF <10MHz). Note that signals not REFLECTED by the ionosphere are being ABSORBED or lost to space.

The amount of solar flux tends to alter the Earth's geomagnetic field. Therefore, another means to measure solar flux is to measure changes in our geomagnetic field. There are observatories worldwide making these measurements daily and hourly as well. Instantaneous measurements are called the "K Index," and specific to the location of measurement. They

are averaged over 24-hours for a global mean index, called the "A index." A low A index (<7) indicates a very quiet sun, while larger numbers means a progressively larger amount of solar activity. A>30 is considered a minor geomagnetic storm. The lower the A-index, the better the ionospheric reflection (low absorption) and higher A-indices means higher absorptions.

Therefore, the dominant means in measuring solar activity as a measure of how our ionosphere is affecting HF communications is: 1) sunspot numbers; 2) 10.7cm solar radio flux; 3) geomagnetic condition (K and A indexes); and 4) the actual measure of the maximum usable frequency (MUF) reflected. All of the above measurements are performed daily around the world and issue "daily mean values" and "predicted values."

#### GENERAL MEASUREMENT GUIDELINES:

##### ----- DAILY GEOMAGNETIC ACTIVITY -----

K-Index	A-Index	MUF	SOLAR ACTIVITY
---------	---------	-----	----------------

0-1	0- 7	High MUF	Quiet Sun
2	8-15		Unsettled Sun
3	16-29		Active Sun
4	30-49	Low MUF	Minor Storm
5	50-99	Very Low	Major Storm
6-9	>100	Black-out	Severe Storm

Guidelines are approximate; Global warning centers declare and issue storm states based on numerous factors. A minor storm with A<30 but with high solar flux can be declared, for example.

##### ----- 11-YR SOLAR CYCLE ACTIVITY -----

Sunspots	10.7cm Flux	SOLAR ACTIVITY
----------	-------------	----------------

<10	<50	Very quiet sun
10-20	70	Quiet sun
21-50	> 80	Moderately active
>50	>100	Active sun
>100	>150	Very active sun
>180	>220	Extremely active

WWV broadcasts the geomagnetic K and A Indexes and 10.7cm flux at H+18 minutes (WWVH at H+45 minutes) and any storm conditions in effect.

The K measurement is a 4-digit number; the index a single digit  
K=3342 is a K-index=3  
Both methods are used.

Paul NA5N

-----

Date: Wed, 13 Aug 1997 09:54:35 -0700  
 From: "D.K. Philbin" <dphilbin@slonet.org>  
 To: qrp-1@Lehigh.EDU  
 Subject: [24823] 38S Microphonic..found!  
 Message-ID: <1.5.4.32.19970813165435.006b81f8@slonet.org>  
 Mime-Version: 1.0  
 Content-Type: text/plain; charset="us-ascii"

Dear Qrp Crew,

I began to incorporate some of the mods/fixes from Gary L Surrency and Steve and Anne Ray (Many thanks!) when I confirmed a strong microphonic whenever I tapped the circuit board. It did not seem to matter where I hit the blasted thing it rang like a bell!

In a nutshell...the 78L08 regulator. I reheated the connections on the PCB and now it's gone!

D.K. Philbin KD6TK

-----  
Date: Wed, 13 Aug 1997 13:08:22 -0400  
From: John Marshall <johnmars@mindspring.com>  
To: qrp-1@Lehigh.EDU  
Subject: [24824] Re: MAPS  
Message-ID: <103020901b0179672353e@[207.69.166.107]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com> wrote:

Hi Brad, the other day, I stumbled across a web site that would draw azimuthal maps for any location at any scale. Unfortunately, I didn't bookmark the URL. Do you or anybody else know the URL of such a web site?

Hi Cecil,

This is it. Great site and great idea:

<http://www.arscorp.com:1080/>

72,  
John Marshall, KU4AF  
Pittsboro, NC

-----

Date: Wed, 13 Aug 1997 13:15:58 -0400  
From: "Kevin F. Glynn" <KFGlynn@prodigy.net>  
To: <psykey@okcforum.org>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [24825] Re: learning CW operating procedures  
Message-ID: <199708131713.NAA18230@mail1y-int.prodigy.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Hi Jim and Gang,

The perfunctory QSO can be OK, but I like to ragchew most often as well. ARRL has a manual explaining procedures, however you seem to have them already.

When I want to ragchew I try to initiate it with the other station. If they live in LA, I'll maybe talk about how well the Dodgers (or how poorly, etc) are playing. Or football, other sport. Maybe ask a question about their locale, where I may have visited or know something about.

If there is news that can be of interest to us both I bring that up too. Ragchewing with DX can be pretty tough, but I do like to ragchew with US and Canadian stations when I can.

I have a QSL card from a gent in FLA who wrote "you are the best ragchewer in NY". That's a keeper for me.

GL

72 Kevin N2T0

-----  
Date: Wed, 13 Aug 97 10:30:58 -0800  
From: jerome\_peters@el.nec.com  
To: <qrp-1@Lehigh.EDU>  
Subject: [24826] Inexpensive Antenna Mast  
Message-ID: <9708138714.AA871493461@intermail.el.nec.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

Just thought I'd share something that has worked well for me.

I spent several days going to various stores trying to find the best (cheapest) way to get a 40M dipole up. I noticed at one store there



were three different types of antenna mast but only two had the price tag. So I asked the sales floor support engineer (clerk) what's the price. After several minute they came back and said "Oh, that's not suppose to be there, that's the top pipe to chain-link fences" I said great, what's the PRICE. After a few more minutes they came back and said \$4.69 each.

Description:

About 10'6" long

About 1 and 1/8" in diameter.

Some type of galvanized metal.

At one end of each pipe the diameter is reduce for about 5" so they can be fit together.

I also purchased a four foot section of 1" wooden doweling and some 1/4" x3" Eye bolts.

I used a two foot piece of the doweling inside the pipe to reinforce the reduced section where the pipes overlap. Then drill a couple of holes, this way you can Eye bolt two sections together without worry about the pipe buckling. Plus you have a place to attach the guy wires. Attach a couple more Eye bolts to the top and your all set. I made two of these, one for top of the garage and one for the top of the house.

So for less than half the price of the "standard t.v. type" antenna mast you can make something to really get your Dipole or Inverted V up.

CAUTION: I don't think I'd trust this for anything heavy, or with a rotor.

Regards,

Jerome Peters

KC6ENE

Santa Clara California

-----  
Date: Wed, 13 Aug 1997 10:34:29 -0700  
From: Ed Loranger <we6w@qsl.net>  
To: rick1@loa.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [24827] Re: What's your favorite antenna book?

Message-ID: <33F1F025.DB8@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I have various Antenna books which satisfy any particular mood I'm in:

"Just want to look, maybe build an antenna. Where's that collection of tried and true performers".

73 Vertical, Beam, and Triangle Antennas.  
73 Dipole and Long wire Antennas.  
==> Edward M. Knoll, Author.

"I'm tired but want some interesting theory, good reading and new ideas"

Arrl antenna book, 1974 Amateur Radio Handbook,  
ARRL Antenna Anthology (Collection of antenna articles.)

"I want to thoroughly investigate in-depth theory of antennas including commercial applications considerations and maybe design a custom antenna array."

Kraus' Antennas  
Stutzman and Thiele Antenna Theory  
Jasik's Antenna Engineering Handbook (1960's?)

-----  
In general, I like to bring entire articles to/from work and study an article per day. Or carry an antenna book back and forth to work, thumbing through sections and perhaps selecting a design to investigate.

This is how I satisfy my antenna addiction - HI!

good luck.  
-Ed Loranger  
--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)  
HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.  
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok  
mailto:we6w@qsl.net <http://www.qsl.net/we6w>  
-----

Date: Wed, 13 Aug 1997 13:46:22 -0400  
From: "David Maliniak" <dmaliniak@penton.com>  
To: qrp-1@Lehigh.EDU  
Subject: [24828] Favorite antenna books  
Message-ID: <852564F2.00615290.00@mail.penton.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

For my money, and for what it's worth, I like a little book called "Practical Wire Antennas," an RSGB job by a G-land ham named Heys (call escapes me). It's exactly what it says it is. It presents a broad range of wire antennas in a fashion that even a dummy like me can understand...and use. I'm sure the ARRL sells it. I got mine at HRO in Sunnyvale last year. About \$15.

72 David N2SMH  
Glen Rock, NJ

-----  
Date: Wed, 13 Aug 1997 13:48:10 EDT  
From: ac4gt@juno.com (nathan c tart)  
To: jerome\_peters@el.nec.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [24829] Re: Inexpensive Antenna Mast  
Message-ID: <19970813.125118.4735.3.ac4gt@juno.com>

You have hit on something there...but....also come in about 15 foot lengths.. also make good transmitting elements for both verticle and horizontal type antennas.. ( I have used them several times with very good results.. great for monibanders which really work better anyway)

On Wed, 13 Aug 97 10:30:58 -0800 jerome\_peters@el.nec.com writes:

>  
> Just thought I'd share something that has worked well for me.  
>  
> I spent several days going to various stores trying to find the  
>best  
> (cheapest) way to get a 40M dipole up. I noticed at one store  
>there  
> were three different types of antenna mast but only two had the

>price  
> tag. So I asked the sales floor support engineer (clerk) what's  
>the  
> price. After several minute they came back and said "Oh, that's  
>not  
> suppose to be there, that's the top pipe to chain-link fences" I  
>said  
> great, what's the PRICE. After a few more minutes they came back  
>and  
> said \$4.69 each.  
>  
> Description:  
> About 10'6" long  
> About 1 and 1/8" in diameter.  
> Some type of galvanized metal.  
> At one end of each pipe the diameter is reduce for about 5" so  
>they  
> can be fit together.  
>  
> I also purchased a four foot section of 1" wooden doweling and  
>some  
> 1/4" x3" Eye bolts.  
>  
> I used a two foot piece of the doweling inside the pipe to  
>reinforce  
> the reduced section where the pipes overlap. Then drill a couple  
>of  
> holes, this way you can Eye bolt two sections together without  
>worry  
> about the pipe buckling. Plus you have a place to attach the guy  
>  
> wires. Attach a couple more Eye bolts to the top and your all  
>set. I  
> made two of these, one for top of the garage and one for the top  
>of  
> the house.  
>  
> So for less than half the price of the "standard t.v. type"  
>antenna  
> mast you can make something to really get your Dipole of Inverted  
>V  
> up.  
>  
> CAUTION: I don't think I'd trust this for anything heavy, or  
>with a  
> rotor.  
>  
> Regards,

>  
> Jerome Peters  
> KC6ENE  
> Santa Clara California  
>  
>  
>  
>

-----  
Date: Wed, 13 Aug 1997 10:57:44 -0700  
From: Ed Loranger <we6w@qsl.net>  
To: psykey@okcforum.org  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [24830] Re: learning CW operating procedures  
Message-ID: <33F1F598.624C@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Great questions Jim!

Sorry I don't have any books, but do have a suggestion that might help.

First, I get 30-45 minute rag chews all the time. Not everyone wants to hang out for that long. But even guys that keep sending 'AR' after all the requisite information was exchanged can be snagged into a ragchew.

Technique: It's like fishing. Get the op interested in tidbits of information you supply. I add things like: 'trying out this battery but don't know how its doing. Am I chirping yet?'

And - 'My dipole's beam is North/South, had a QSO, your city last week with .5 watts using a dipole. Want to try the Vertical some day...., Want to switch over?'

Give your age and how long a ham. Tell the op your thinking about getting or building a loop antenna or piece of test equipment. Ask if he's got any recommendations on keyers or where's a good camping area to operate near his QTH.

What you got to do is like fishing. Tie a good custom

Fly on the line -- Get the interest, Get the ragchew!

"The dog just ran in here es knocked my coffee over,  
do you have a rotweiller?"

Must be a coffee drinker.  
Best to you and good luck!  
-Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)  
HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.  
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok  
mailto:we6w@qsl.net <http://www.qsl.net/we6w>

-----

Date: Wed, 13 Aug 1997 11:04:44 -0700  
From: Ed Loranger <we6w@qsl.net>  
To: FAITHD@dnr.state.wi.us  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [24831] Re: J. Lenk book not available  
Message-ID: <33F1F73C.57DD@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Real sorry about your order not available :(

Perhaps you can contact Prentice-Hall, Inc,  
Englewood Cliffs, N.J. 07632 directly?

This book is too good to be unavailable.  
(Wish I got royalties, HI!)

Apparently there is a whole slew of 'Handbook of'  
books by John D. Lenk. Maybe there's some new  
expanded version available.

Also I think these Web bookstores might miss a hardcopy  
version when looking for paperback?

es gl om.  
-Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)  
HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.  
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok

mailto:we6w@qsl.net <http://www.qsl.net/we6w>

-----  
Date: Wed, 13 Aug 1997 12:01:44 -0600  
From: Andy Robertson <aarobert@spot.Colorado.EDU>  
To: qrp-l@Lehigh.EDU  
Subject: [24832] Unsubscribe  
Message-ID: <3.0.1.32.19970813120144.007a3cb0@spot.colorado.edu>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Unsubscribe

At 07:03 PM 8/12/97 EDT, you wrote:

> QRP-L Digest 816  
>  
>Topics covered in this issue include:  
>  
> 1) [24718] RE: 2SC2166 pwr out  
> by "DANIEL DOBSON" <DAN DOBSON@msn.com>  
> 2) [24719] Re: GAP Principals (Antenna)  
> by duwaynes@postoffice.worldnet.att.net  
> 3) [24720] Solar Flux -- UP!  
> by "Bob Follett" <bfollett@ditell.com>  
> 4) [24721] Soapbox for the August Spartan Sprint (Long)  
> by Russ Carpenter <russ@natworld.com>  
> 5) [24722] RESULTS FOR THE AUGUST SPARTAN SPRINT  
> by Russ Carpenter <russ@natworld.com>  
> 6) [24723] Automatic Lightning Protection  
> by "Bob Follett" <bfollett@ditell.com>  
> 7) [24724] Re: MAPS  
> by Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com>  
> 8) [24725] Re: battery abuser question?  
> by launerb@crl.com (William H. Launer)  
> 9) [24726] 40m portable ant.  
> by ROBERT PENNEYS <radio@UDel.Edu>  
> 10) [24727] 11V from 12V regulator (II)  
> by Bill Meara <wmeara@erols.com>  
> 11) [24728] 5 year old builder  
> by David Adams <adamsclan@netgate.net>  
> 12) [24729] cmos III keyer  
> by K4AHK@ix.netcom.com  
> 13) [24730] AL7FS in Skagway Alaska  
> by JLarsen@alascom.att.com

> 14) [24731] Re: 5 year old builder  
> by Greg Newberry <newberry@cyberhighway.net>  
> 15) [24732] Please Help Identify Part (coil in a coil)  
> by "Adam B. Kanis" <adam-kanis@uiowa.edu>  
> 16) [24733] Re: 40m portable ant.  
> by n5inz@juno.com  
> 17) [24734] Butterfly Beam  
> by Thomas Isgro <kc8dgu@postoffice.worldnet.att.net>  
> 18) [24735] Re: Please Help Identify Part (coil in a coil)  
> by Ed Tanton <n4xy@bellsouth.net>  
> 19) [24736] Re: Headphone Impedance (WAS: Headphones, where to get)  
> by Leon Heller <leon@lfheller.demon.co.uk>  
> 20) [24737] Mystery ocde practice box  
> by doug hauff <slmachco@fix.net>  
> 21) [24738] Re: Special Foxhunt  
> by Harvey Hetland <n6mm@earthlink.net>  
> 22) [24739] Re: summer doldrums/scratch building  
> by Raventhorne <jelder@ix.netcom.com>  
> 23) [24740] QRP Packet Terminal/Wordprocessor for sale  
> by Michael Fletcher <fletch@swlink.net>  
> 24) [24741] Dual gate MOSFETS  
> by Bill Meara <wmeara@erols.com>  
> 25) [24742] kent dual paddle key  
> by No Other Than <mitch96@herald.infi.net>  
> 26) [24743] Yaesu tone board  
> by "Richard Hensel" <rrhensel@sprintmail.com>  
> 27) [24744] Re: RF Sensing Switch  
> by Zack Lau <zlau@arrl.org>  
> 28) [24745] Re: How to paint PCB  
> by Ed Pacyna <pacyna@auratek.com>  
> 29) [24746] Map Help, MAPS, Place Names to Lat/Long  
> by Ronald McConnell <rcmcc@lucent.com>  
> 30) [24747] RE: Please Help Identify Part (coil in a coil)  
> by "James C. Owen, III" <owen@piper.eeel.nist.gov>  
> 31) [24748] Re: Map Help, MAPS, Place Names to Lat/Long  
> by Chris Cartwright <ccart@dns.vidtel.com>  
> 32) [24749] Re: Dual gate MOSFETS  
> by Chris Trask <ctrask@primenet.com>  
> 33) [24750] A1 K0FRP  
> by "duane" <duane@flinet.com>  
> 34) [24751] PA3GGE  
> by jfitton@lucent.com  
> 35) [24752] Re: 5 year old builder  
> by "Michael A. Gipe" <mgipe@reliablemeters.com>  
> 36) [24753] Re: Special Foxhunt  
> by "Wilford D. Lindsey" <70511.3041@CompuServe.COM>  
> 37) [24754] Resonant speaker tube  
> by Jim Glover <psykey@okcforum.org>



> 38) [24755] (ANTS.) Gap antennas principles  
> by "rohre" <rohre@arlut.utexas.edu>  
> 39) [24756] Re: Special Foxhunt  
> by Ed Loranger <we6w@qsl.net>  
> 40) [24757] FAQs (was: Dan's MPF131)  
> by laura halliday <ve7ldh@direct.ca>  
> 41) [24758] Scratch/Kit/Commercial (FS: 40m SST)  
> by "Brian K. Short" <shortckt@primenet.com>  
> 42) [24759] Re: Resonant speaker tube  
> by Ed Loranger <we6w@qsl.net>  
> 43) [24760] Re: Resonant speaker tube  
> by "Bob Kellogg" <ae4ic@nr.infi.net>  
> 44) [24761] Re: Resonant speaker tube  
> by Chris Cartwright <ccart@dns.vidtel.com>  
> 45) [24762] Re: Pixie 2 xtal source request  
> by Ed Loranger <we6w@qsl.net>  
> 46) [24763] Re: Resonant speaker tube  
> by Ed Loranger <we6w@qsl.net>  
> 47) [24764] RE: Resonant speaker tube  
> by "Pat A. Taber" <pat@vtpo1.genrad.com>  
> 48) [24765] OLD "FIRE-BALL" XMTR  
> by kreinbd@ccgate.dl.nec.com (David Kreinberg)  
> 49) [24766] Map Help, MAPS, Place Names: MORE  
> by Ronald McConnell <rcmcc@lucent.com>  
> 50) [24767] Re: Resonant speaker tube  
> by Ed Loranger <we6w@qsl.net>  
> 51) [24768] RE: OLD "FIRE-BALL" XMTR  
> by "Ed Manuel" <n5em-qrp@msn.com>  
> 52) [24769] Re: Key pictures on the web  
> by "Frank, G3YCC." <g3ycc@gqrpclub.demon.co.uk>  
> 53) [24770] EZNEC Software / N5ZGT YHOTY '97 award winner/  
> by wa5whn@juno.com  
> 54) [24771] Re: Special Foxhunt  
> by "W. D. Lindsey" <70511.3041@CompuServe.COM>  
> 55) [24772] Re: Scratch/Kit/Commercial  
> by Steven Weber <kd1jv@moose.ncia.net>  
> 56) [24773] Re: [Mobile/Portable] Lowest Priced Homepage Designer On The  
Net!  
> by rerobins@unccvm.uncc.edu (Rick Robinson)  
> 57) [24774] Re: [Mobile/Portable] Lowest Priced Homepage Designer On The  
Net!  
> by Rick Powell - WB6JBM <ripowell@mpna.com>  
> 58) [24775] Re: [Mobile/Portable] Lowest Priced Homepage Designer On The  
Net!  
> by Chris Trask <ctrask@primenet.com>  
> 59) [24776] 000000PS!  
> by Chris Trask <ctrask@primenet.com>  
> 60) [24777] Re: [Mobile/Portable] Lowest Priced Homepage Designer On The

Net!

> by Chris Trask <ctrask@primenet.com>

>

>-----

>

>Date: Mon, 11 Aug 97 21:58:29 UT

>From: "DANIEL DOBSON" <DAN DOBSON@msn.com>

>To: "Steven Weber" <kd1jv@moose.ncia.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

>Subject: [24718] RE: 2SC2166 pwr out

>Message-ID: <UPMAIL11.199708112300060051@msn.com>

>

>Hey Folks,

>

>Bear with me. I have forgotten the email address for this server so I'm going

>to piggy back on this message just to get in the system. BTW, what is the correct address?

>

>My other question is this: I have an OHR Explorer, built in 1995. Has always

>worked FB, with an output of about 2-2 and a half watts, depending on pwr supply. I made many contacts with it during the recent field day.

>

>The output appears to have dropped to barely 500mW. I rechecked my supply,

>(13.8v) checked my OHR WM-1

>wattmeter, and went through the alignment steps outlined in the OHR manual.

>Everything checks out except for the output. I think this is the same trans

>section as the Explorer II and the 100, except for the 5 watt output on the 100.

>What should I look for in the trans section?

>Any mods out there to boost the output? At least back up to specs?

>

>Thanks for the BW...Dan KG9KF

>

>-----

>From: owner-qrp-1@Lehigh.EDU on behalf of Steven Weber

>Sent: Monday, August 11, 1997 4:29 PM

>To: Low Power Amateur Radio Discussion

>Subject: 2SC2166 pwr out

>

>Hi All,

>

>If anyone was wondering how I got 10+ watts out of a single 2SC2166, the answer is simple----bad test equipment.

>

>Seems I was too lazy to turn on the IFR service monitor, so used an old

>Radio Shack three scale power/ swr meter. Big mistake. Turns out not only

>is the accuracy non existant, it is also frequency sensitive.  
>  
>Measurments on the IFR show 5 watts out up to about 18 Mhz, where it starts  
>to drop with 3 3/4 watts out at 21 Mhz.  
>  
>Thought 10 watts was too good to be true. 5 watts is more consitant with  
>this type of transistor. Oh well, maybe I do need to go push pull. I also  
>see an OHR QRP power meter in my future.  
>  
>73  
>  
>Steve, KD1JV....In the White Mountains of New Hampshire  
>  
>"Melt Solder"  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 07:03:57 -0400  
>From: duwaynes@postoffice.worldnet.att.net  
>To: qrp-1@Lehigh.EDU  
>Subject: [24719] Re: GAP Principals (Antenna)  
>Message-ID: <3.0.2.32.19970812070357.009143f0@postoffice.worldnet.att.net>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset="us-ascii"  
>  
>At 01:03 PM 8/11/97 +0000, you wrote:  
>>Hi gang,  
>>  
>>I read a little blurb about the GAP antenna and how the developer  
>>stumbled onto this 'GAP' accidentally. Does anyone know how it really  
>>works and if it can be applied to other antenna setups?  
>>  
>>Thanks  
>>Greg  
>>WB7DUO  
>>  
>>  
>Best place to find the info on the gap antenna is the IBM patent server at  
><http://patent.womplex.ibm.com> and look at patent #5592183. This is the  
>original patent on the gap antenna and gives much information on how it  
>works and also how to build one. If you look around at this site there are  
>many entries concerning antennas. Hope this helps  
>DuWayne KE4HMP qrp-1 #807  
>  
>  
>

>  
>-----  
>  
>Date: Mon, 11 Aug 1997 17:40:24 -0600  
>From: "Bob Follett" <bfollett@ditell.com>  
>To: "QRP-L Group" <qrp-l@Lehigh.EDU>  
>Subject: [24720] Solar Flux -- UP!  
>Message-ID: <199708112333.RAA29855@mars.ditell.com>  
>MIME-Version: 1.0  
>Content-Type: text/plain; charset=ISO-8859-1  
>Content-Transfer-Encoding: 7bit  
>  
>Ok Gang:  
>  
>Fire up those higher band rigs over the next few days.  
>  
>>From NOAA:  
>  
>IV. PENTICTON 10.7 CM FLUX  
>OBSERVED 11 AUG 080  
>PREDICTED 12 AUG-14 AUG 082/082/084  
>  
>84 for the 14th looks pretty good!  
>  
>73, Bob  
>-----  
>Bob Follett AB7ST, QRP-L # 129, NorCal, ARCI, 10-10, ARS  
>2861 Estates Dr. VOICE: 801.649.6457  
>Park City, UT 84060 E-mail: bfollett@ditell.com  
>  
>  
>  
>-----  
>  
>Date: Mon, 11 Aug 97 16:35:47 -0700  
>From: Russ Carpenter <russ@natworld.com>  
>To: "QRP-L List" <qrp-l@Lehigh.EDU>  
>Subject: [24721] Soapbox for the August Spartan Sprint (Long)  
>Message-ID: <199708112335.QAA20374@guppy.pond.net>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset="US-ASCII"  
>  
>Here is the Soapbox for the August Spartan Sprint. In spite on those  
>thunderbumpers, a fine event.  
>  
>\*\*\*\*  
>  
>>From John, K6PZB

>  
>N4TN was my best DX.  
>I was mobile in Santa Cruz during a vacation.  
>Also heard ae4vt,n0ibt, k0dia, kb2tnf, aa3md.  
>  
>\*\*\*\*  
>  
>>From Ed, WE6W  
>  
>Oh boy, Used the Makita Battery the night before but apparently didn't  
>take a full charge before the contest.  
>After struggling with Joe, AB7TT I cannibalized my  
>metal detector and hooked up a bunch of D Cells to  
>run the contest. Worked FB, albeit an emergency  
>setup.  
>  
>HW-8, Plastic straight Key, 12 D Cell rechargeables,  
>QRP Tuner. Added the Homebrew keyer later which  
>pushed me to the full 5 lbs. 1/10 oz. headphones.  
>I look forward to this each month!  
>  
>\*\*\*\*  
>  
>>From Randy, KS4L  
>  
>Lots of fun operating about an hour from Whitman Field, Oshkosh, WI  
>during the '97 EAA Convention/Fly-in. Rig was OHR Explorer II for 40m,  
>LDG Autotuner, 8044 keyer in an Altoids box with Whiterook paddles, 7Ah  
>gel cell, and SLV.  
>  
>\*\*\*\*  
>  
>>From Larry, WD3P  
>  
>Went camping in WV. The ant. was up, the station was ready. Then the  
>thunderstorms moved in. It was better to have 0 QSOs than to be a  
>lightning rod.  
>  
>\*\*\*\*  
>  
>>From Lori, AC6XK  
>  
>I was operating from Big Bear Lake, CA where my daughter and I were  
>camping. My antenna location wasn't the greatest and I know it really  
>affected my performance. Oh well!  
>  
>\*\*\*\*  
>

>>From Bob, N6WG

>

>Used QRP++, DSP59+, Island Keyer, big FD battery, 2 40m loops in phase.  
>Guess most stns were on 20m. 40m was very thin. Worked KI6YN who ran 8w  
>and a 40m quad! 5 States, CA, CO, ID, AZ, OR.  
>I'll try to be more active in the Sprints, as this was fun.

>

>\*\*\*\*

>

>>From Jim, KC1FB

>

>Wow! Couldn't have timed it worse! Just at 01:00 UTC thunder storms  
>rolled in and I had to get off the air. About 02:15 caught a break, got  
>WF6B in CA with my 950mW and his 2W's. Then things got bad again and I  
>had to wait for another window in the lightning to get K06KA and W6ZH  
>both again in CA running 3W's. SST-20's AGC takes care of some of the  
>QRN, but not the close ones. Maybe next time.....gotta get under 1  
>lb.....and get more Q's.

>

>Station: SST-20, 8 AA's, whiterook key, earbuds.

>Ant Center-fed-Zepp up abt 55'

>Pwr 900-950 mW using WM-1

>

>\*\*\*\*

>

>>From Brian, W5VB0

>

>Lot's of local T-storm activity limited my ability  
>to copy the weak ones, especially on 40M.  
>Changed my station a bit from last month.  
>I now run an OHR Explorer II on 20 and 40,  
>with a 12 V 4 AH Gel Cel. Still using the  
>old bulky MFJ CW keyboard though, so my overall station weight is still  
>quite high yet.  
>Gonna work on that a bit before the next SP.

>

>\*\*\*\*

>

>>From Dick, KF6CTA

>

>Rig was SST, 20 meters only, with 8-AA cells, Whiterook paddles, and ear  
>buds. TiCK-2 keyer built into the SST. Total about 1.1 pounds on my  
>>wife's diet scale.

>I CHEATED and, rather than use my usual roof-top vertical in San Diego, I  
>trekked out on Pt. Loma to the radio club and used the Force C-3 beam.  
>What a difference a good antenna makes when it is 400 feet up over water  
>to both east and west!!! Had a pipeline into NJ, VA, TN, LA, etc.  
>Someone with some skill could have racked up a really good score. But I

>am pleased and had a lot of fun. I'm practicing and learning. Also,  
>confession is good for the soul.  
>  
>\*\*\*\*  
>  
>>From Randy, AB7TK  
>  
>  
>After having it easy the last two Spartan Sprints, I went to the  
>mountains north of Moscow  
>and put up a 40 m dipole headed southeast. I used the SST and it did a  
>fine job. The rest  
>of the station was a G4ZPY paddle, a Curtis 8044 keyer chip inside the  
>SST, a small ear piece,  
>and 8 AA batteries. It is a lot of extra trouble to face the dipole  
>toward the east rather  
>than the south. Only two contacts were to the east, so I think next time  
>I'll just head the  
>dipole toward the south to catch CA and AZ. Too early in the evening to  
>take advantage  
>of an easterly heading.  
>  
>\*\*\*\*  
>  
>>From Rob, K06KA  
>  
>I loaded my tubby Argonaut and vertical into the  
>car and went portable to escape the surging line  
>noise. It was wonderful to hear so much further.  
>Same location, same gear as for Field Day. The  
>setup goes much faster with practice! I know we  
>are encouraged to travel by human power but 104  
>degrees is just too hot, I'd pass out. Thanks  
>especially to the east coast stations who could  
>copy me -- KC1FB N2CQ N4ROA WJ4P N4OLN -- that's  
>a long haul from California! 73, Rob K06KA  
>  
>\*\*\*\*  
>  
>>From Jack, W7QQQ  
>  
>What a blast! I used a ICOM 725 this time, but  
>I'll be back in September with  
>a SST. Thanks for organizing a fun event.  
>  
>\*\*\*\*  
>  
>>From Harvey, N6MM

>  
>Comments: From Pete, W6ZH, "Key paddle made from switch parts awful".  
>N4TN gets my nomination for "good ears" for hearing me on 40m. Missed  
>Cam, N6GA on 40m when he disappeared, but he quickly appeared on 20m.  
>  
>  
>\*\*\*\*  
>  
>>From Mark, N2VPK  
>  
>I only got to play for about 40 minutes but had lots of fun. There were  
>not many SP'ers on 40M. Seems lots of folks would rather the double  
>points on 20M. Unfortunately, it was hard to make Q's on 20M. There were a  
>lot of SP'ers right at the noise level and not workable.  
>  
>It seems to be easier making 40M Q's at 850mW than 20M Q's at 5W! (I used  
>a full wave loop on 40M and an XBeam at 35' on 20M.) Oh, the rigs were  
>the SWL40 and an OHR100. Power was from an AA cell Pack. Keying was by an  
>Atomic Keyer and Enviro paddles. Power was set a few days ago with a WM-2.  
>  
>Thanks to the following folks for finding me last night- N2CQ, W5VB0,  
>W6ZH, K6RPN, AB7TT, WS8D.  
>  
>Lastly, maybe single points for both bands would result in more total Q's  
>for the test. What do you think? Mark N2VPK  
>  
>\*\*\*\*  
>  
>>From Ken, N2CQ  
>  
>I was lucky to be on vacation when the August Sprint came along  
>so I had a chance to join the fun, instead of going to work  
>in the evenings. I tried to run the Explorer on 40 at 1 w  
>on a battery pack of 8 AA cells for a while. Mark  
>N2VPK was the only QSO for the first halfhour so I went to  
>20 with the big battery pack (7.7 lb). Had to do that since  
>the MFJ-9020 would drain the AA Pack in about 1 qso. More fun  
>on 20. Lots of guys in Ca, AZ, and TX. Good signals from CA too.  
>Back to 40 for the last halfhour with the Big Pack. Still nobody there  
>again until the last 5 minutes which I was lucky for a QSO on WI and MI.  
>It is an interesting 2 hours and I will try it again when I can.  
>  
>\*\*\*\*  
>  
>>From Dan, N4ROA  
>  
>  
>Gotta work on my station weight. N4TN says that it is a good



>thing the operator weight is not counted. hee hee  
>  
>\*\*\*\*  
>  
>>From Joe, AB7TT  
>  
>Wow, rough night! Big thunderstorms around the valley  
>made for some hellacious QRN. Managed to work states  
>across the US (AZ, CA, GA, IL, MI, NY, NJ, TN, TX, VA)  
>but it wasn't easy on either side. Sorry WJ4P - your call  
>was there, then you just plain disappeared.  
>  
>Thanks for the QSOs folks! Hope the thunderstorms stay  
>away next time so I can hear the rest of you.  
>  
>\*\*\*\*  
>  
>>From Randy, WJ4P  
>  
>Thunderstorms kept me from getting on the first  
>hour. Looks like I had a "pipeline" into  
>CA with all contacts from 6 land. Thanks to  
>AB7TN and W7QQQ for trying to break the CA  
>"spell". QSB got them before I could get the  
>exchange.  
>  
>\*\*\*\*  
>  
>>From Cam, N6GA  
>  
>I was surprised to make QSOs in LA and TN on 40M - the band was in  
>amazingly good shape. QSY'd to 20M and found it was even better! Next  
>time I should have the SST going, hope to make a dent in the "Fly Weight"  
>category.  
>  
>\*\*\*\*  
>  
>>From Don, WF6B  
>  
>USED SST FROM WILDERNESS RADIO, HAS GOOD EARS FOR SUCH A SMALL RADIO.  
>  
>\*\*\*\*  
>  
>>From Dean, N2TNN  
>  
>Wow, the traffic. It sounded like everyone was calling CQ at once. West  
>coast was coming in very strong but no reply from AB7TT, N6MM, W6ZSR,  
>AC6RN and a bunch of others.

>Let's do it again next month.

>

>

>-----

>

>Date: Mon, 11 Aug 97 16:35:53 -0700

>From: Russ Carpenter <russ@natworld.com>

>To: "QRP-L List" <qrp-l@Lehigh.EDU>

>Cc: "Richard Fisher" <KI6SN@aol.com>, "Wayne Burdick"  
<svecbrdk@mail.well.com>, "Lorraine Aubert" <AC6XK@amsat.org>, "Cam  
Hartford" <camqrp@cyberg8t.com>

>Subject: [24722] RESULTS FOR THE AUGUST SPARTAN SPRINT

>Message-ID: <199708112335.QAA20384@guppy.pond.net>

>Mime-Version: 1.0

>Content-Type: text/plain; charset="US-ASCII"

>

>We were blessed with excellent participation in the August Spartan  
>Sprint. These results are being posted several days after our standard  
>posting date, cause your contest manager was playing in the back country  
>last week.

>

>It looks like the SST is about to make a big difference in the world of  
>Spartan Sprinters. This nifty little radio performs well and weighs less  
>than zilch.

>

>By way of reminder, each 20 meter Q gets two points, and each 40 meter Q  
>gets one point. (This scoring system is designed to encourage QRPers to  
>explore the world beyond 40 meters, and to make the Spartan Sprints a  
>national contest.) In some cases where the stations were clearly in the  
>tubby category, but station weight was not provided, your contest manager  
>assigned an arbitrary weight of 30 pounds.

>

>The top two performers in each category receive handsome certificates.

>The contest manager is not eligible.

>

>Results sorted in order of points per pound:

>

>Name	Call	20 M	40M	Total	Weight	Points/ Pound
-------	------	------	-----	-------	--------	------------------

>

>

>KF6CTA	Dick	20	0	20	1.1	18.18
---------	------	----	---	----	-----	-------

>WF6B	Don	24	0	24	1.4	17.14
-------	-----	----	---	----	-----	-------

>W6ZH	Pete	34	10	44	2.91	15.12
-------	------	----	----	----	------	-------

>WJ4P	Randy	10	0	10	.7	14.29
-------	-------	----	---	----	----	-------

>AB7TT	Joe	24	0	24	2.4	10.00
--------	-----	----	---	----	-----	-------

>AB7TK	Randy	0	10	10	1.2	8.33
--------	-------	---	----	----	-----	------

>N6MM	Harvey	28	8	36	5.7	6.32
-------	--------	----	---	----	-----	------

>N4ROA	Dan	36	5	41	7.5	5.47
--------	-----	----	---	----	-----	------

>KC1FB	Jim	6	0	6	1.1	5.45
>W5VB0	Brian	32	6	38	7.5	5.07
>N6GA	Cam	14	6	20	4	5.00
>WE6W	Ed	10	5	15	5	3.00
>N2CQ	Ken	22	3	25	11	2.27
>N2VPK	Mark	8	2	10	5	2.00
>K06KA	Rob	18	3	21	14.8	1.42
>WS8D	Mike	28	4	32	25	1.28
>W7QQQ	Jack	20	7	27	21.3	1.27
>N0IBT	Dave	2	6	8	7	1.14
>KS4L	Randy	0	7	7	8.2	0.85
>AC5AM	Bob	32	4	36	50	0.72
>K6PZB	John	0	11	11	20	0.55
>AC6XK	Lori	0	2	2	4.5	0.44
>VE5WF	Earl	12	0	12	30	0.40
>N6WG	Bob	0	13	13	35.7	0.36
>N2TNN	Dean	0	3	3	15	0.20

>

>Results sorted in order of points:

>

>Name	Call	20 M	40M	Total
>				
>W6ZH	Pete	34	10	44
>N4R0A	Dan	36	5	41
>W5VB0	Brian	32	6	38
>AC5AM	Bob	32	4	36
>N6MM	Harvey	28	8	36
>WS8D	Mike	28	4	32
>W7QQQ	Jack	20	7	27
>N2CQ	Ken	22	3	25
>AB7TT	Joe	24	0	24
>WF6B	Don	24	0	24
>K06KA	Rob	18	3	21
>KF6CTA	Dick	20	0	20
>N6GA	Cam	14	6	20
>WE6W	Ed	10	5	15
>N6WG	Bob	0	13	13
>VE5WF	Earl	12	0	12
>K6PZB	John	0	11	11
>AB7TK	Randy	0	10	10
>N2VPK	Mark	8	2	10
>WJ4P	Randy	10	0	10
>N0IBT	Dave	2	6	8
>KS4L	Randy	0	7	7
>KC1FB	Jim	6	0	6
>N2TNN	Dean	0	3	3
>AC6XK	Lori	0	2	2

>

>Thanks for your support!  
>  
>Russ Carpenter, AA7QU  
>Contest Manager for Adventure Radio Society  
>  
>  
>-----  
>  
>Date: Mon, 11 Aug 1997 17:46:36 -0600  
>From: "Bob Follett" <bfollett@ditell.com>  
>To: "QRP-L Group" <qrp-l@Lehigh.EDU>  
>Subject: [24723] Automatic Lightning Protection  
>Message-ID: <199708112339.RAA29998@mars.ditell.com>  
>MIME-Version: 1.0  
>Content-Type: text/plain; charset=ISO-8859-1  
>Content-Transfer-Encoding: 7bit  
>  
>Gang:  
>  
>I hate to re-post copywriten material, but this announcement seemed so  
>relevent to many past discussions.... Now if I only knew what it cost....  
>  
>UPI Science News  
> PLANT CITY, Fla., Aug. 11 (UPI) - A new system protects your  
> home or business from lightning by automatically unplugging all  
> your electronic equipment and telephone lines to prevent damage.  
>  
> Dan Young of Rabun Labs in Plant City, Fla., says he's invented  
> three systems that automatically disconnect the vulnerable  
> equipment from the power source.  
>  
> Says Young, "These systems are 'active and intelligent' and  
> operate with no human intervention. They detect lightning when it  
> is a safe distance away, then isolate your equipment from the power  
> source, telephone lines, coaxcable lines and so forth. Then they  
> ground those input-output lines."  
>  
> The systems are not like surge suppressors or arrestors. When  
> your equipment is hooked to a surge suppressor and turned off, it  
> still remains connected to the power source. The new system  
> "unplugs" the equipment from that source.  
>  
> Young notes that every year more than \$1 billion is spent to  
> repair lightning-damaged equipment.  
>  
> Each system is designed for a specific purpose. The AI-1800  
> system is used in industrial locations where continuous operation  
> is needed for production. The Model 1000 is best for protecting the

> home or office. And the ILD is intended for safeguarding computers  
> and home entertainment equipment.

>

> The systems can be purchased through Rabun Labs. (Written by  
> UPI Science Writer Lidia Wasowicz in San Francisco)

>

>Anybody want to research the product and give a report to QRP-L?

>

>73, Bob

>-----

>Bob Follett AB7ST, QRP-L # 129, NorCal, ARCI, 10-10, ARS

>2861 Estates Dr. VOICE: 801.649.6457

>Park City, UT 84060 E-mail: bfollett@ditell.com

>

>

>

>-----

>

>Date: Mon, 11 Aug 97 16:46:00 PDT

>From: Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com>

>To: qrp-l@Lehigh.EDU

>Subject: [24724] Re: MAPS

>

>>From: Brad Mugleston <bmug@gwl.com>

>>Boy did I get a response to my last request. For those of you who

>>are interested here are the responses I got.

>

>Hi Brad, the other day, I stumbled across a web site that would

>draw azimuthal maps for any location at any scale. Unfortunately,

>I didn't bookmark the URL. Do you or anybody else know the URL

>of such a web site?

>

>thanks & 73, Cecil, W6RCA, OOTC

>

>

>-----

>

>Date: Mon, 11 Aug 1997 19:59:48 -0500

>From: launerb@crl.com (William H. Launer)

>To: qrp-l@Lehigh.EDU

>Subject: [24725] Re: battery abuser question?

>Message-ID: <v0153050bb0155fd6c146@[192.0.2.1]>

>Mime-Version: 1.0

>Content-Type: text/plain; charset="us-ascii"

>

>>On a related note, what happens to a battery (computer grade lead

>>acid) that you just leave lying around indoors? Anything evil?

>

>The real proof of survival will be to charge them, and do a  
>discharge/capacity test. I've had batteries show good terminal  
>voltage with a DVM, but fail miserably when asked to provide real  
>ampere-hours!  
>  
>A conventional, deep-discharge lead-acid battery will probably not  
>suffer much from this type of treatment. The new breed of "minimum/no  
>maintenance" automotive batteries will not stand being stored for long  
>periods, especially if they're allowed to self-discharge during the  
>storage period. Once they have deeply discharged, they will look like  
>they are taking a charge (the terminal voltage will come up), but will  
>fail a capacity test.  
>  
>72/73 Bill wb0cld  
>  
>  
>Bill Launer  
>St. Charles, MO  
>launerb@crl.com  
>wb0cld@wb0cld.ampr.org [44.46.66.25]  
>qrp-l #279           qrp arc1 #3551  
>Grid Square EM48RT  
>  
>  
>  
>  
>-----  
>  
>Date: Mon, 11 Aug 1997 21:05:14 -0400 (EDT)  
>From: ROBERT PENNEYS <radio@UDe1.Edu>  
>To: qrp-l@Lehigh.EDU  
>Subject: [24726] 40m portable ant.  
>Message-ID: <199708120105.VAA14085@copland.udel.edu>  
>  
>  
>  
>Looking for easy to set up antenna for portable 40m QRP. Have mount  
>on car for mobile ant., have MFJ folded dipole. Want something that doesn't  
>take a lot of room or time for the beach, pool, trips, etc, where there  
>may not be trees available.  
>  
>Tnx and 72.... Bob  
>  
>  
>           Bob Penneys, N9GG (recently WN3K)   Trustee, W3TT, W3JJ  
>       Frankford Radio Club - Perennial #1 Worldwide in Contesting  
>   Sales Manager, Ham Radio Outlet, Delaware - World's Largest Ham Dealer  
> tel: (800) 644 4476       fax: (302) 322-8808       e-mail: rgp@hamradio.com

>  
>  
>-----  
>  
>Date: Mon, 11 Aug 1997 21:27:05 -0400  
>From: Bill Meara <wmeara@erols.com>  
>To: qrp-1@Lehigh.EDU  
>Subject: [24727] 11V from 12V regulator (II)  
>Message-ID: <199708120131.VAA12709@smtp1.erols.com>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset="us-ascii"  
>  
>Thanks to all who sent advice on my regulator problems. First, let me  
>confirm that I did indeed have a rectifier in the circuit! Full wave bridge  
>rated at 4 amps, 50 volts.  
>Transformer has an 18 volt secondary. (There is a center tap but I'm not  
>using it.) The circuit I'm using is essentially the one on page 239 of QRP  
>Classics (minus some of the caps and the RFC).  
>  
>Following some of the suggestions posted here, I went ahead and put bypass  
>capacitors on the regulator's input and output (hoping to suppress any  
>oscillations that might be present). No luck. Still got 11 volts out.  
>(I've measured the same voltage with two different meters - one a VOM and  
>the other a VTVM.)  
>  
>I'm thinking that I simply bought an 11 volt regulator in 12 volt clothing!  
>Tomorrow I'll try a new part (and will report back on results).  
>  
>Thanks again.  
>73 de N2CQR  
>Bill Meara, Falls Church, Virginia  
>wmeara@erols.com  
><http://www.mindspring.com/~johnmb/billm.htm>  
>  
>  
>  
>-----  
>  
>Date: Mon, 11 Aug 1997 19:06:57 -0700  
>From: David Adams <adamsclan@netgate.net>  
>To: qrp-1@Lehigh.EDU  
>Subject: [24728] 5 year old builder  
>Message-ID: <33EFC540.5BC5@netgate.net>  
>MIME-Version: 1.0  
>Content-Type: text/plain; charset=us-ascii  
>Content-Transfer-Encoding: 7bit  
>  
>Well, I've been nailed by my good friend URI (upper resp infection), so

>I was home with my daughter today rather than at work. I couldn't take  
>her outside, and she was bored with playing inside games by about 3, so  
>I asked her if she'd like to help sort the parts for my new explorer II  
>kit. Now, anytime she gets to watch me build something she beams, so  
>not too suprisingly, she jumped at the chance.  
>  
>Now, I don't suggest this for the serious builder, but when you get down  
>to it, I need another 40m rig like I need a hole in my head...so I  
>wasn't to worried.  
>  
>We spread out her art mat on the floor and opened the bags. I snagged  
>all the silicon bits for safe keeping. I told Brittany to sort out all  
>the resistors ("What are those?" "The little brown ones with the pretty  
>lines" "Oh") while I took care of the caps ("you mean the blue things?"  
>"yep...and the brown ones too" "oh"). We made our piles...she even made  
>a separate pile for the molded inductors (I had expected to see them in  
>the resistor pile).  
>  
>Next, we checked out the resistors. I called out the number and colors  
>and she dug for them. It was a bit confusing for her till she learned  
>that the gold band is always last.  
>  
>Next I handed her the caps and showed her the numbers and told her to  
>"find the matches." While she did that I zipped through the silicon  
>inventory.  
>  
>We then checked off the matched and unmatched caps.  
>  
>Finally we buzzed through the hardware and peaked at the clock...lo and  
>behold...I'd never inventoried a rig so quickly before...go figure...she  
>was ready to play at that point, so we packed up the parts in our Fry's  
>parts bin and headed back to Thomas and his clickety clack track.  
>  
>Dave  
>  
>  
>-----  
>  
>Date: Mon, 11 Aug 1997 22:08:42 -0400  
>From: K4AHK@ix.netcom.com  
>To: qrp-l mail <qrp-l@Lehigh.EDU>  
>Subject: [24729] cmos III keyer  
>Message-ID: <33EFC5A6.4659@ix.netcom.com>  
>MIME-Version: 1.0  
>Content-Type: text/plain; charset=us-ascii  
>Content-Transfer-Encoding: 7bit  
>  
>Thanks to all who sent me info about the Idiom Press CMOS III keyer.



>  
>I found the ad in QST as directed.  
>  
>Bill - K4AHK  
>  
>  
>-----  
>  
>Date: Mon, 11 Aug 1997 18:49:56 -0800  
>From: JLarsen@alascom.att.com  
>To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>  
>Subject: [24730] AL7FS in Skagway Alaska  
>Message-ID:  
<3FFF2C3C44B1D011899600A0245821700E9096@alascomexca.alascom.att.com>  
>MIME-Version: 1.0  
>Content-Type: text/plain  
>  
>Greetings,  
>  
>I am in the motorhome in Skagway Alaska until next Sunday morning. I  
>will be looking around the QRP frequencies in the evenings starting  
>around 0230-0300Z.  
>  
>I just ducked into my son's lodgings here at the White Pass and Yukon  
>Route railroad to use the phone line.  
>  
>I am heading out to the motorhome now (0300Z) to see what I can hear.  
>  
>Be kind to me, as I am using the mike up-down buttons as 16 wpm for now.  
>I will have to break out the QRP+ and set up the paddles later.  
>  
>73,  
>Jim  
>AL7FS  
>Skagway, Alaska  
>  
>  
>-----  
>  
>Date: Mon, 11 Aug 1997 21:02:59 -0600  
>From: Greg Newberry <newberry@cyberhighway.net>  
>To: adamsclan@netgate.net  
>Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
>Subject: [24731] Re: 5 year old builder  
>Message-ID: <33EFD263.7EDB@cyberhighway.net>  
>MIME-Version: 1.0  
>Content-Type: text/plain; charset=us-ascii  
>Content-Transfer-Encoding: 7bit

>  
>David Adams wrote:  
>>  
>> Well, I've been nailed by my good friend URI (upper resp infection), so  
>> I was home with my daughter today rather than at work. I couldn't take  
>> her outside, and she was bored with playing inside games by about 3, so  
>> I asked her if she'd like to help sort the parts for my new explorer II  
>> kit. Now, anytime she gets to watch me build something she beams, so  
>> not too suprisingly, she jumped at the chance.  
>>  
>> Now, I don't suggest this for the serious builder, but when you get down  
>> to it, I need another 40m rig like I need a hole in my head...so I  
>> wasn't to worried.  
>>  
>> We spread out her art mat on the floor and opened the bags. I snagged  
>> all the silicon bits for safe keeping. I told Brittany to sort out all  
>> the resistors ("What are those?" "The little brown ones with the pretty  
>> lines" "Oh") while I took care of the caps ("you mean the blue things?"  
>> "yep...and the brown ones too" "oh"). We made our piles...she even made  
>> a separate pile for the molded inductors (I had expected to see them in  
>> the resistor pile).  
>>  
>> Next, we checked out the resistors. I called out the number and colors  
>> and she dug for them. It was a bit confusing for her till she learned  
>> that the gold band is always last.  
>>  
>> Next I handed her the caps and showed her the numbers and told her to  
>> "find the matches." While she did that I zipped through the silicon  
>> inventory.  
>>  
>> We then checked off the matched and unmatched caps.  
>>  
>> Finally we buzzed through the hardware and peaked at the clock...lo and  
>> behold...I'd never inventoried a rig so quickly before...go figure...she  
>> was ready to play at that point, so we packed up the parts in our Fry's  
>> parts bin and headed back to Thomas and his clickety clack track.  
>>  
>> Dave  
>  
>Nice Story. I used to get old radios and set my daughter up at the  
>workbench with a screwdriver and a pair of wire cutters. I'd tell her to  
>take \_Everything\_ off. In about an hour the chassis was picked clean.  
>Looked like a sun-dried cow head in the desert. It was hard to keep her  
>out of the good stuff....  
>  
>Greg  
>  
>

>-----  
>  
>Date: Mon, 11 Aug 1997 22:05:03 -0500  
>From: "Adam B. Kanis" <adam-kanis@uiowa.edu>  
>To: qrp-1@Lehigh.EDU  
>Subject: [24732] Please Help Identify Part (coil in a coil)  
>Message-ID: <3.0.3.32.19970811220503.006960b0@molsun.ophth.uiowa.edu>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset="us-ascii"  
>  
>hi all,  
>  
>at a hamfest last weekend i bought a \_BOX\_ of air variable capacitors, many  
>with gear reduction built on. i offered the guy \$1 each for 2 of them, but  
>he told me it was \$1 for the whole box, so i hauled it out.  
>  
>anyway, besides the air-variables, in it were a bunch of coils and coil  
>forms. there are also these ?ceramic coil forms with a small ring-shaped  
>ceramic form inside that could rotate, changing its orientation with  
>respect to the long axis of the main coil form. i'm guessing that this  
>allows for some kind of variable coupling between the two, but that is only  
>a guess. could anybody give me clue what they are and what they are used  
>for? i've got a couple of these things.  
>  
>btw-if anybody is dying to have one, let me know as i can probably spare one.  
>  
>73,  
>--adam, n2brt  
>adam-kanis@uiowa.edu  
>  
>  
>-----  
>  
>Date: Mon, 11 Aug 1997 20:23:19 -0700  
>From: n5inz@juno.com  
>To: radio@UDe1.Edu  
>Cc: qrp-1@Lehigh.EDU  
>Subject: [24733] Re: 40m portable ant.  
>Message-ID: <19970811.202319.3166.2.N5INZ@juno.com>  
>  
>Sorry,,,,,that may not have been helpfull.  
>  
>Try this.....piece of wood (say.....12x24- somewhere near one side  
>of the long end mount a thick dowel. Use your imagination.  
>On the side AWAY from the dowel(with the dowel exposed), drive over the  
>board until the tire rests on the board and the dowel  
>is exposed in it's upright position.  
>

>Using TV masts(availiable from Radio Shack in 3/4/5 ft. lengths-don't  
 >remember- These are the ones that slip into each other),  
 >set the mast over the dowel. An eye or other device(plastic ties, etc.)  
 >will be used for raising the dipole.  
 >  
 >Tie childrens balloons across the dipole so the general public doesn't  
 >keep you in court.  
 >  
 >72, John-N5INZ  
 >  
 >BTW- If ya wanna get fancy.....and build a custom mount; cut a circular  
 >piece of wood and mount to the spare tire(using the dowel)  
 > and lay it on the ground away from others who park in your lot.  
 >  
 >Ref: A Short 7-MHz Dipole Qrp Classics/ QST 4/89  
 >  
 >  
 >-----  
 >  
 >Date: Mon, 11 Aug 1997 23:22:33 -0400  
 >From: Thomas Isgro <kc8dgu@postoffice.worldnet.att.net>  
 >To: qrp-l@Lehigh.EDU  
 >Subject: [24734] Butterfly Beam  
 >Message-ID: <33EFD6F9.3796@postoffice.worldnet.att.net>  
 >MIME-Version: 1.0  
 >Content-Type: text/plain; charset=us-ascii  
 >Content-Transfer-Encoding: 7bit  
 >  
 >Thanks for all the replies to my question about the Butternut Butterfly  
 >beam and thanks for the bandwidth.  
 >--  
 >\*\*\*\*\*  
 >\*\*\*\*\*  
 >73 de  
 >KI8CZ  
 >Tom Isgro  
 >OHIO  
 >  
 >  
 >10-X #68364       SCI #1479       QRP-L #945       ARS #203  
 >C.A.T.T #2115     FIST 2360       NORCAL       ARRL  
 >  
 >\*\*\*\*\*  
 >\*\*\*\*\*  
 >  
 >  
 >  
 >

>-----  
>  
>Date: Tue, 12 Aug 1997 01:35:06 -0400  
>From: Ed Tanton <n4xy@bellsouth.net>  
>To: adam-kanis@uiowa.edu  
>Cc: "Low Power Amateur Radio Discussion" <grp-l@Lehigh.EDU>  
>Subject: [24735] Re: Please Help Identify Part (coil in a coil)  
>Message-ID: <3.0.1.32.19970812013506.009153c0@mail.atl.bellsouth.net>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset="us-ascii"  
>  
>Hi Adam... often called a "variometer" these are indeed variable link  
>coupling inductors. You vary the amount of signal through the coupler by  
>varying the coupling using the rotatable link.  
>It is efficient, and often death on harmonics... but as you can see, not  
>inexpensive to manufacture.  
>  
>At 10:05 PM 8/11/97 -0500, Adam B. Kanis wrote:  
>>hi all,  
>>  
>>at a hamfest last weekend i bought a \_BOX\_ of air variable capacitors, many  
>>with gear reduction built on. i offered the guy \$1 each for 2 of them, but  
>>he told me it was \$1 for the whole box, so i hauled it out.  
>>  
>>anyway, besides the air-variables, in it were a bunch of coils and coil  
>>forms. there are also these ?ceramic coil forms with a small ring-shaped  
>>ceramic form inside that could rotate, changing its orientation with  
>>respect to the long axis of the main coil form. i'm guessing that this  
>>allows for some kind of variable coupling between the two, but that is only  
>>a guess. could anybody give me clue what they are and what they are used  
>>for? i've got a couple of these things.  
>>  
>>btw-if anybody is dying to have one, let me know as i can probably spare  
one.  
>>  
>>73,  
>>--adam, n2brt  
>>adam-kanis@uiowa.edu  
>>  
>>  
>>  
>72/73  
>-----  
>Ed Tanton N4XY EMAIL: n4xy@bellsouth.net  
>189 Pioneer Trail  
>Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX  
>-----  
>QRP-ARCI #7663 G-QRP #6779 OK-QRP #172 QRP-L #758

>AdvRC #140                      NORCAL #1779                      NCDXF                      SEDXC  
 >  
 >Life Member:                      ARRL                      AMSAT                      INDEXA                      QCWA  
 >-----  
 >  
 >INTERESTS: DX    QRP    BoatAnchors    Test Equipment    Photography  
 >CW: 99.9%    QRP: 95-100% (Mood swings!)    Mercury Paddle #0214  
 >~~~~~  
 >"Think you can, think you can't: either way you're right!"                      Henry Ford  
 >~~~~~  
 >  
 >  
 >-----  
 >  
 >Date: Mon, 11 Aug 1997 20:53:13 +0100  
 >From: Leon Heller <leon@lfheller.demon.co.uk>  
 >To: dalea@artemis.fc.hp.com  
 >Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
 >Subject: [24736] Re: Headphone Impedance (WAS: Headphones, where to get)  
 >Message-ID: <1TwdSBAP227zEwI\$@lfheller.demon.co.uk>  
 >MIME-Version: 1.0  
 >  
 >In message <33EF4663.6792@artemis.fc.hp.com>, KB0VCC  
 ><dalea@artemis.fc.hp.com> writes  
 >>L.C. Chadbourne wrote:  
 >>>I recently got my OHR-100 back from alignment. It include a note to "Use  
 >>>Only (underlined)! 8 ohm Headphones . . ." I've checked local sources  
 >>>and can't find any. Anyone know where I can order a pair?  
 >>>Thanks in advance.  
 >>>N5LC  
 >>  
 >>I have an OHR-100 as well and have read this "warning". I would  
 >>like to install an audio output transformer inside (that I can  
 >>switch in or out) to match the Z to the type of headphone. So here's  
 >>my question: What is the typical Z of personal stereo headphones?  
 >>I've heard anywhere from 600 to 2K Ohms. Can someone who REALLY  
 >>knows, let me know?  
 >  
 >32 ohms.  
 >  
 >Leon  
 >--  
 >Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>  
 >Amateur Radio Callsign G1HSM    Tel: +44 (0) 118 947 1424  
 >See <http://www.lfheller.demon.co.uk/rcm.htm> for details of a  
 >low-cost reconfigurable computing module using the XC6216 FPGA  
 >  
 >

>  
>-----  
>  
>Date: Mon, 11 Aug 1997 22:49:16 -0700 (PDT)  
>From: doug hauff <slmachco@fix.net>  
>To: qrp-l@Lehigh.EDU  
>Subject: [24737] Mystery ocde practice box  
>Message-ID: <199708120549.WAA14099@fletch.fix.net>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset="us-ascii"  
>  
>OK, now its my turn to say "stupid me I was too quick on the delete button",  
>about the code practice Black Box. What I saw before my dinosaur computer  
>wiped it out leads me to believe I know what it is - a CAT code generator.  
>Several versions, I learned the code with the cheapest one , \$29.00,  
>generates qso's, random characters, tests, etc., standard or Farnsworth,  
>etc., controlled by pushbuttons probably spend half a lifetime figuring out  
>how it works without the manual. So Whoever posted the question, please  
>contact me I'll send you a copy, I have both standard and deluxe models.  
>Great unit.  
>  
>73 Doug KE6RIE  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 07:01:48 -0700  
>From: Harvey Hetland <n6mm@earthlink.net>  
>To: qrp-l@Lehigh.EDU  
>Subject: [24738] Re: Special Foxhunt  
>Message-ID: <33F06CCC.2FB1@earthlink.net>  
>MIME-Version: 1.0  
>Content-Type: text/plain; charset=us-ascii  
>Content-Transfer-Encoding: 7bit  
>  
>After three nights of listening to snap, crackle and pop on 40m in  
>search of the "special fox" the log indicates no special fox but a lot  
>of nice QRP-L QSOs. One QRPer suggested it was a joke. If so it did get  
>a lot of us on the air. Has anyone heard the K5FO fox? Other than  
>K0EVZ calling K5FO and comments during QSOs to the effect of, "Where's  
>Chuck", there has been no sign of a possible fox from my location. Our  
>local Tuesday is the last chance. Is there meaning to Chuck's selection  
>of words, "Until Tuesday night late"? Possibly later than 0700Z?  
>Anyone heard him?  
>  
>73, Harvey, N6MM.  
>

>  
>-----  
>  
>Date: Tue, 12 Aug 1997 02:13:48 -0500 (CDT)  
>From: Raventhorne <jelder@ix.netcom.com>  
>To: moyle@essc.psu.edu, "Low Power Amateur Radio Discussion"  
<grp-1@Lehigh.EDU>  
>Subject: [24739] Re: summer doldrums/scratch building  
>Message-ID: <2.2.16.19970812001338.3ad739b6@popd.ix.netcom.com>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset="us-ascii"  
>  
>At 01:41 PM 8/8/1997 -0400, Al Moyle wrote:  
>  
>>Gang,  
>>  
>>Here's the scoop ... Straight from Amazon.com. Unfortunately, it isn't  
>>available right now.  
>>  
>>72,  
>>Al N3KFL  
>>  
>>Handbook of Simplified Solid State Circuit Design  
>>by John D. Lenf  
>>  
>>2nd Edition  
>>Paperback  
>>Published by Simon & Schuster (Paper)  
>>Publication date: March 1979  
>>ISBN: 0133817075  
>>  
>>THIS ITEM IS CURRENTLY NOT AVAILABLE. Though not  
>>officially "out of print," this item is "out of stock"  
>  
>  
>Amazon chose to show a less grim picture to me:  
>  
>Handbook of Simplified Solid State Circuit Design  
>by John D. Lenk  
>  
>2nd Edition  
>Hardcover, 429 pages  
>Published by Prentice Hall  
>Publication date: January 1978  
>Dimensions (in inches): 9.28 x 6.35 x 1.06  
>ISBN: 0133817156  
>List: \$41.00 ~ Our Price: \$28.70 ~ You Save: \$12.30 (30%)  
>Availability: On Order; usually ships within 1-2 weeks.



>  
>@~~~  
>@ John Elder, Ko6TS  
>@ PHROG (Pagan Ham Radio Operators' Guild)  
>@ Box 232, El Segundo, CA 90245  
>@ Reunite Gondwanaland!  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 01:49:37 -0700  
>From: Michael Fletcher <fletch@swlink.net>  
>To: qrp-l@Lehigh.EDU  
>Subject: [24740] QRP Packet Terminal/Wordprocessor for sale  
>Message-ID: <103010d01b015d3bc5b13@[204.252.163.108]>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset="us-ascii"  
>  
> I have a Tandy WP-2 notebook wordprocessor that also has a terminal  
>program and RS-232 output built into it. Some hams used the older Model 100  
>for mobile and portable packet so this should work as well, especially with  
>its larger 8-line, 80 character-wide screen and larger keyboard. It has a  
>128K Ramdisk that I have added and is in excellent condition. Runs for  
>quite a few hours on 4-AAA cells or AC/DC adapters.  
>  
>Anyone for QRP packet?  
>  
>I'd be receptive to trading for an interesting QRP rig of similar value (to  
>the seller, of course!).  
>  
>73,  
>Mike NP2J  
>Chandler, AZ  
>  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 05:49:44 -0400  
>From: Bill Meara <wmeara@erols.com>  
>To: qrp-l@Lehigh.EDU  
>Subject: [24741] Dual gate MOSFETS  
>Message-ID: <199708120953.FAA01514@smtp1.erols.com>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset="us-ascii"  
>

>W3KL was asking about the suitability of the MPF-131's currently advertised  
>on Dan's Small Parts' Web Page (for use as a substitute for the 40673's that  
>appear in so many of the QRP Classics circuits). I'm hoping that they will  
>be OK, because I just ordered a few (for future projects).

>

>Another source: I noticed that Mouser is selling SK3050 devices. One of  
>the data bases (Penn State?) that these devices were presented as very  
>similar to the 40673 and NTE222 MOSFETS.

>

>Is anyone still making dual gate MOSFETS or are we all just consuming old  
>stock?

>

>

>

>

>73 de N2CQR

>Bill Meara, Falls Church, Virginia

>wmeara@erols.com

><http://www.mindspring.com/~johnmb/billm.htm>

>

>

>

>-----

>

>Date: Tue, 12 Aug 1997 08:06:07 -0400

>From: No Other Than <mitch96@herald.infi.net>

>To: qrp-l@Lehigh.EDU

>Subject: [24742] kent dual paddle key

>Message-ID: <33F04F2F.1B87@herald.infi.net>

>MIME-Version: 1.0

>Content-Type: text/plain; charset=us-ascii

>Content-Transfer-Encoding: 7bit

>

>Hi gang,

>I am looking for a used, but not abused, KENT dual paddle key.

>Please e-mail if interested.

>Mitch, N4jbw ..

>

>

>-----

>

>Date: Tue, 12 Aug 1997 08:10:56 -0400

>From: "Richard Hensel" <rrhensel@sprintmail.com>

>To: <qrp-l@Lehigh.EDU>

>Subject: [24743] Yaesu tone board

>Message-ID: <199708121220.FAA16382@mailgate22>

>MIME-Version: 1.0

>Content-Type: text/plain; charset=ISO-8859-1

>Content-Transfer-Encoding: 7bit  
>  
>This is not strictly QRP, but this group is the best source for help I  
>know.  
>  
>I just recently acquired a Yaesu FT-208R handheld. The radio seems to work  
>fb, however the radio has the optional FTS-32 tone board and I dont know  
>what the  
>dip switch settings are. If anyone could copy the manual for the tone  
>board I would  
>gladly pay for copying.  
>  
>Thanks, 73 72  
>Dick Hensel N8WLC  
>rrhensel@sprintmail.com  
>419-562-8822  
>fax 419-562-3798  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 08:29:26 -0400  
>From: Zack Lau <zlau@arrl.org>  
>To: qrp-l@Lehigh.EDU  
>Subject: [24744] Re: RF Sensing Switch  
>Message-ID: <33F05726.1642@arrl.org>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset=us-ascii  
>Content-Transfer-Encoding: 7bit  
>  
>Kory Hamzeh wrote:  
>>  
>> I am working on a 20 watt amp to give my QRP rigs a little punch every  
>> now and then. Since none of my QRP rigs have a TX output signal (PTT),  
>> I'd like to build something very simple to sense that the rig is  
>> transmitting and turn on a transistor. I was looking at the rainbow  
>  
>A simple diode detector will work with typical QRP levels.  
>  
>However, I'm a bit leery of hot switching 10s of watts--even  
>if the switching device survives you can still generate a nasty  
>sounding signal, adding serious key clicks.  
>  
>I've used two methods to avoid this problem. The simplest is to  
>multiplex a DC control line onto the RF output of the radio, and  
>sense this for T/R switching. I make sure that this signal has  
>the proper sequencing.  
>

>Alternately, you can build a sequencer into the amplifier, and  
>bring up/down the amplifier in the proper timing and order.  
>Sequencers are quite common in ARRL Handbooks--we have had as  
>many as three at one time!  
>  
>--Zack Lau W1VT  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 08:41:07 -0400  
>From: Ed Pacyna <pacyna@auratek.com>  
>To: qrp-1@Lehigh.EDU  
>Subject: [24745] Re: How to paint PCB  
>Message-ID: <3.0.16.19970812084106.2fc75404@dingle.auratek.com>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset="us-ascii"  
>  
>At 06:09 PM 8/11/97 -0400, Bob Kellogg wrote:  
>  
>>I sand the enclosures and finish them like an automobile fender. That is,  
>>I use fine wet or dry sandpaper, then spray on an automotive undercoat,  
>>sand again, (do this maybe two or three times) and then the final coats of  
>>automotive paint.  
>  
>This paint is good quality and you will be able to find colors that match  
>to TenTec, Kenwood etc. equipment.  
>  
>Ed, W1AAZ  
>  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 08:44:12 -0400  
>From: Ronald McConnell <rcmcc@lucent.com>  
>To: "'bmug@gwl.com'" <bmug@gwl.com>,  
>"'qrp-1@lehigh.edu'"@nss2.CC.Lehigh.EDU, <qrp-1@Lehigh.EDU>  
>Cc: "'Ronald McConnell'" <rcmcc@lucent.com>  
>Subject: [24746] Map Help, MAPS, Place Names to Lat/Long  
>Message-ID: <01BCA6FB.E9FA5330@adc\_lab9.amc.bell-labs.com>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset="us-ascii"  
>Content-Transfer-Encoding: 7bit  
>  
>

>That was a great list of web sites to get Lat/Long  
>for street addresses! I'll see if I have any more  
>(probably not).  
>  
>For place names to lat/long for the US and Canada.  
>  
>The US Geological Survey geographic name information service  
>(GNIS) query:  
>  
> <http://www-nmd.usgs.gov/www/gnis/gnisform.html>  
>  
>has coordinates for every big rock, small pond,  
>bridge, cemetery, ... in the US that has a name,  
>not just cities and towns. I found 114 "McConnell"  
>locations.  
>  
>The Canadian counterpart is the geographic name  
>server at Natural Resources Canada:  
>  
> [http://www-nais.ccm.nrcan.gc.ca/cgndb/english/cgndb\\_lookup.html](http://www-nais.ccm.nrcan.gc.ca/cgndb/english/cgndb_lookup.html)  
>  
>I haven't found a \_free\_ online source for  
>world latitude and longitude coordinate data yet.  
>[ The Defense Mapping Agency (DMA) data base seems  
>to be restricted to official gov't use. ]  
>  
>Cheers, 73,  
>  
>Ron McConnell, w2iol  
>rcmcc@lucent.com  
>  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 08:41:49 -0500 (EST)  
>From: "James C. Owen, III" <owen@piper.eeel.nist.gov>  
>To: qrp-1@Lehigh.EDU  
>Subject: [24747] RE: Please Help Identify Part (coil in a coil)  
>Message-ID: <31311.owen@piper.eeel.nist.gov>  
>  
>In message Mon, 11 Aug 1997 22:05:03 -0500,  
> "Adam B. Kanis" <adam-kanis@uiowa.edu> writes:  
>  
>> hi all,  
>> ceramic coil forms with a small ring-shaped  
>> ceramic form inside that could rotate, changing its orientation with

>> respect to the long axis of the main coil form. i'm guessing that this  
>> allows for some kind of variable coupling between the two, but that is  
>> only a guess. could anybody give me clue what they are and what they are  
>> used for? i've got a couple of these things.  
>>  
>It sounds like the final tank coil from the ARC-5 transmitters. The moveable  
>coil is the link output.  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 09:12:38 -0400 (EDT)  
>From: Chris Cartwright <ccart@dns.vidtel.com>  
>To: QRP Reflector <qrp-l@Lehigh.EDU>  
>Subject: [24748] Re: Map Help, MAPS, Place Names to Lat/Long  
>Message-ID: <Pine.LNX.3.93.970812090412.559A-100000@dns.vidtel.com>  
>MIME-Version: 1.0  
>Content-Type: TEXT/PLAIN; charset=US-ASCII  
>  
>On Tue, 12 Aug 1997, Ronald McConnell wrote:  
>  
>>  
>> That was a great list of web sites to get Lat/Long  
>> for street addresses! I'll see if I have any more  
>  
>Just wondering if anyone has found a web/net source that can give altitude  
>(height above sea level) for lat and long? I spent the better part of a  
>day wandering the web, mostly USGS, and had a tough time finding the  
>highest point in MD. I finally found it (by accident) on a page for State  
>and National parks. I guess most of us are only interested in the "high"  
>points <grin>. I have bought USGS "Quads" in the past, but sometimes they  
>are tough to find and/or get expensive if you want to cover and entire  
>state. 72  
>  
>-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --  
>-- N3XRV QRP WAS 17/9 (w/c) | ccart@erols.com --  
>-- QRP-L #655 NORCAL #1891 QRP-ARCI #???? | http://dns.vidtel.com/~ccart --  
>-- WIMPS Q's=04 30M=04 17M=00 12M=00 STATES=03/00/00 DX=00/00/00 QSL's=00 --  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 06:50:36 -0700 (MST)  
>From: Chris Trask <ctrask@primenet.com>  
>To: Bill Meara <wmeara@erols.com>  
>Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
>Subject: [24749] Re: Dual gate MOSFETS

```

>Message-ID: <Pine.BSI.3.96.970812064307.6995B-100000@usr09.primenet.com>
>MIME-Version: 1.0
>Content-Type: TEXT/PLAIN; charset=US-ASCII
>
>On Tue, 12 Aug 1997, Bill Meara wrote:
>
>> W3KL was asking about the suitability of the MPF-131's currently advertised
>> on Dan's Small Parts' Web Page (for use as a substitute for the 40673's that
>> appear in so many of the QRP Classics circuits). I'm hoping that they
>> will
>> be OK, because I just ordered a few (for future projects).
>>
> Except for a slightly higher Ciss, the MPF131 is a good replace-
>ment for the 40673. Most important was the specification for Vg1s(off)
>and Vg2s(off). Most dual-gate MOSFETs currently available require a
>positive voltage on G2 in order to conduct.
>
>> Another source: I noticed that Mouser is selling SK3050 devices. One of
>> the data bases (Penn State?) that these devices were presented as very
>> similar to the 40673 and NTE222 MOSFETS.
>>
> Penn State? I'm not familiar with this data base. Do you have
>any details?
>
>> Is anyone still making dual gate MOSFETS or are we all just consuming old
>> stock?
>>
> Dual-gate MOSFETS are currently being produced by Philips,
>Siemens, and Toshiba, with Philips in the lead. NEC has a pair of GaAs
>die, the NE231 and NE233, which are available in a variety of packages.
>Virtually all of them are in the surface-mount SOT143 package or similar.
>
>
> Regards,
>
> Chris
>
>
> -----
> / If you understand it, \
> / then it's obsolete! \
> \ -----
> _||/
> oo\
> (__) \
> \ \ . ' .
> \ \ / \
> \ \ " \
> . ( ) \
> ' - | ) | : \
>
> Circuit Design for the
> RF Impaired
>
> Chris Trask / N7ZWY
> Principal Engineer
> ATG Design Services
> P.O. Box 25240
> Tempe, Arizona 85285-5240
>
> Technical Editor,
> QRP Quarterly
> QRP ARCI 9464

```

>       | | | | \ '.  
>       c\_\_; c\_\_; '-..'>.\_\_       Email: ctrask@primenet.com

>                       Graphics by Loek Frederiks

>-----

>  
>Date: Tue, 12 Aug 1997 10:07:00 -0400  
>From: "duane" <duane@flinet.com>  
>To: "QRP-L" <qrp-l@Lehigh.EDU>  
>Subject: [24750] A1 K0FRP  
>Message-ID: <199708121409.KAA15916@shell.flinet.com>  
>MIME-Version: 1.0  
>Content-Type: text/plain; charset=ISO-8859-1  
>Content-Transfer-Encoding: 7bit

>  
>If anyone knows of a way to contact A1 K0FRP please let me know. I  
>purchased some rotors from him and he sent them to me by UPS 7/21/97 before  
>the strike. I took some vacation time from work to put my tower and rotors  
>up. The rotors never arrived. Now my vacation is ending and UPS can't track  
>the rotors for me without a shipping number or tracking number. I've been  
>trying to contact A1 for over a week now but his Email box is full. The  
>phone listing in the directory for A1 is in error to an out of business  
>number and the operator says their sorry for the mistake but still unable  
>to fine the correct listing due to the error. I have no problem  
>with A1 as all of this is out of his control, I just need the tracking  
>number. So if someone knows how to reach him please give him my number  
>561-996-6290. This is a good case of Murphy's law hi hi. I repeat their is  
>no problem dealing with A1 he is unaware of my problem reaching him, and is  
>unaware of the fact the rotors did not arrive. I'm just running out of  
>time, I've got to back to work on the 21st !

>72/73  
>Duane AB4BE QRP-L#710  
><http://www.flinet.com/~duane>  
>duane@flinet.com  
>ab4be@amsat.org

>-----

>  
>Date: 12 Aug 97 10:43:00 -0400  
>From: jfitton@lucent.com  
>To: qrp-l@Lehigh.EDU  
>Subject: [24751] PA3GGE



>Message-ID: <199708121444.KAA11944@emsr1.emsr.lucent.com>  
>Content-Type: text  
>  
>  
> Sorry for the bandwidth.....But e-mail did not work.  
>  
> Peter, PA3GGE .... I gave you the wrong number !!!!  
>  
> The FAX number is 508-960-3466  
>  
>Thanks.....  
>  
>  
> 72/73 Jim, W1FMR <><  
>  
> jffitton@lucent.com  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 08:31:51 -0700  
>From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
>To: <adamsclan@netgate.net>, "Low Power Amateur Radio Discussion"  
<qrp-1@Lehigh.EDU>  
>Subject: [24752] Re: 5 year old builder  
>Message-ID: <199708121531.KAA01626@multi13.netcomi.com>  
>MIME-Version: 1.0  
>Content-Type: text/plain; charset=ISO-8859-1  
>Content-Transfer-Encoding: 7bit  
>  
>Dave --  
>  
>Oh--oh. I see my 6-yr-old daughter is going to have competition at the  
>next Pacificon building contest. (Jessica Gipe --first winner, 1996)  
>  
>But she's warming up. She helped me build the last Digital Clock Counter  
>kit. She formed, inserted, and clinched half the R's, C's, and Q's, then I  
>soldered them in place. She also let me install the bigger parts. She  
>does excellent work, though her attention span is only long enough for a  
>small kit.  
>  
>Maybe your daughter and mine should form a team???  
>  
>Enjoy the joys.  
>  
>Mike K1MG  
>

>  
>  
>  
>-----  
>  
>  
>Date: 12 Aug 97 09:27:08 EDT  
>From: "Wilford D. Lindsey" <70511.3041@CompuServe.COM>  
>To: "INTERNET:n6mm@earthlink.net" <n6mm@earthlink.net>, QRP-L Discussion  
Group <QRP-L@Lehigh.EDU>, "W.D. (Doc) Lindsey/K0EVZ"  
<70511.3041@CompuServe.COM>  
>Subject: [24753] Re: Special Foxhunt  
>Message-ID: <970812132708\_70511.3041\_IHD74-1@CompuServe.COM>  
>  
>Harvey:  
>  
>Well I still haven't heard him. Not a peep. Plus, haven't heard a  
>pileup. Have been wondering whether it was just me, or what. Not  
>frustration, really, because I re-read his original e-mail. Seemed to  
>notice some "wiggle room" spaces in there.  
>  
>And as you, have had several nice QSO's anyway. \*Have\* even heard some  
>DX here and there. Even worked a Cuban. Last night I tried to simply  
>call him, in the hope he might be the FOX waiting for someone to send a  
>dog to flush him out of hiding. No luck. Oh well.  
>  
>Are you going to look for him once more, tonight?! I will be there  
>again so if you hear me, please give a holler.  
>  
>72/73,  
>--Doc/K0EVZ qrp-l 861 norcal 2050 cqc 414 mn-qrp 19 nj-qrp 69 ak/qrp 139  
> ARCI 9398 ARRL WAS 48/38 DXCC 52/39 <><  
> -----  
> Sierra OMNI V Argosy 525 Argo 515 HW-9 Explorer II-40 SW-30  
> Norcal 40a Emtech 40-40 SW-40 TT 1340 A&A Gary Breed 30 49er  
> 38S Mercury Paddles MFJ 259 MFJ 941D TNT/2 Windom SLV/W6MMA  
> HB G5RV Autek QF-1 RS DSP-40  
>  
> "Things should be as simple as possible, but no simpler"--A. Einstein  
>  
>  
>  
>  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 10:53:23 +0000 (GMT)

>From: Jim Glover <psykey@okcforum.org>  
>To: qrp-1@fidoi.cc.lehigh.edu  
>Subject: [24754] Resonant speaker tube  
>Message-ID: <199708121053.KAA00583@okcforum.org>  
>Content-Type: text  
>  
>Hi, everyone!  
>  
>Well, I got around to trying out the resonator idea last weekend,  
>and it worked out pretty well. I decided to start off trying out  
>the tin-can route. Sure enough, the speaker I had (about 7 cm or  
>2.75 inches in diameter, rim-to-rim) fit beautifully over the top  
>of an empty can. The audio results were interesting, but not  
>impressive.  
>  
>Someone posted a few weeks ago, about the fact that an empty can  
>fit a lot of speakers, and worked pretty well. With this thought  
>in mind, I kept an eye open at the hamfest a couple of weeks ago,  
>for a speaker that looked about tin-can size, and found a nice  
>one. Later, I read someone else's post, that mentioned that the  
>Q depends on (I think) the ratio of the diameter of the tube to  
>its length--the smaller that ratio (the longer the tube is,  
>as opposed to wide) the tighter the Q. When I read that, I was  
>a little worried that the speaker I had selected might be a  
>little too wide.  
>  
>My experience with my tin can was consistent with what I had  
>worried about--the apparatus didn't seem to have very sharp  
>selectivity, although there was a noticeable drop in background  
>noise, and some of the higher tones were somewhat enhanced.  
>I guessed it was favoring something around 1000 Hz, and I  
>actually prefer a fairly low note for monitoring CW. So, I  
>checked Ed's post about this, and from there, went to Ed's  
>web page about making these things (thanks, Ed!), where I  
>found the formula to determine the resonant frequency. I  
>measured the can, cranked on the calculator for a few  
>seconds, and sure enough, the math said that it should be  
>somewhere around 950 Hz.  
>  
>So...I got to thinking...what if I doubled the length of the  
>tube? Obviously, that would cut the resonant frequency in  
>half. And then I realized, it would also improve the Q. So,  
>I cut the bottom out of an identical can, and used duct tape  
>to connect the two together into one long tube.  
>  
>Now, that was more like it! Sure enough, it favored those  
>low tones I prefer, and it seemed to have somewhat sharp  
>selectivity. The background noise was way down, too. Also,

>since this thing works on the odd-multiples principle, it  
>had another peak (at around 1425, I suppose, based on the  
>math).

>

>Although someone posted saying that the back of the speaker  
>should go into the can, I mounted mine with the front of the  
>speaker pointed into the can. This leaves the rear framework  
>of the speaker as sort of a structural protection for the  
>more delicate parts of the speaker. I could tell that it  
>would work better if I had the speaker facing my ears, so,  
>I got rid of the test clips, put a quarter of a meter or so  
>of wire and a connector on it instead, and duct taped the  
>speaker to the top of the can. Then I reached for the  
>handy-dandy spool of bailing wire, and fashioned a stand  
>for it. (That's right, folks...duct tape and bailing wire...  
>as well as paper clips, and rubber bands. The UDE in  
>WB5UDE stands for "Ugly Duckling Engineering"!) Cradled in  
>its stand, it sits at about a 45-degree angle...just right  
>to be pointed right at me. (And that did make a difference,  
>too.)

>

>It's not without its disadvantages. My ear's preferences  
>notwithstanding, the low frequency is a disadvantage,  
>because it appears that the filter in my receiver has  
>already begun to roll off slightly by the time the  
>frequency gets that low. The very weakest signals my  
>receiver can detect, simply do not make it through and  
>out the audio output jack, at around 475 Hz. So, if I  
>want to try for those signals, I have to catch them at  
>the 3rd harmonic, instead.

>

>It has some excellent advantages, though! It's easy to  
>make, inexpensive and fairly effective, and the parts  
>are readily available. I count the fact that it looks  
>sort of bizarre sitting next to the HW-101, as an  
>advantage, too! :)

>

>And...if you want to really isolate a particular signal,  
>pick it up out of its stand, and hold the bottom of the  
>can to your ear. With the apparatus in that position,  
>its Q is very sharp, indeed! It really becomes a case  
>of the wanted signal jumping out and grabbing you, as it  
>hits the resonant frequency.

>

>I, too, would like to have one of these things worked  
>into a pair of headphones! It's a neat idea, plus,  
>it explains something I saw in a cartoon, years ago.  
>I don't remember the details, but the general theme of

>the drawing was all the crazy-looking stuff that we hams  
>surround ourselves with. I was able to identify almost  
>everything in the picture, except for one thing...the  
>wild-eyed ham in the middle of it all, was wearing a  
>pair of headphones, each side of which had a cylinder  
>about the size and shape of a typical tin can, sticking  
>out from it. Now, I guess I know what that part of the  
>cartoon was about!

>

>OK...now, a tin-can cylinder would look kind of funny  
>sticking out each side of a pair of headphones. But...  
>since the Q depends on the ratio of length to diameter...  
>(and hard materials are better than soft ones) how about  
>making the resonant tubes out of large diameter copper  
>tubing? Then, they could be routed upward from the ears,  
>and curved inward to follow the contour of the head.  
>Anyone got any idea what to use as materials (besides  
>the copper tubing)? What kind of speaker-like thing  
>would be suitable? How could it be managed mechanically  
>(held in place on the head, comfortably and securely,  
>without any strain on the more delicate parts)?

>

>--Jim WB5UDE (Ugly Duckling Engineering)

>

>

>-----

>

>Date: 12 Aug 1997 11:03:07 -0500

>From: "rohre" <rohre@arlut.utexas.edu>

>To: qrp-l@Lehigh.EDU

>Subject: [24755] (ANTS.) Gap antennas principles

>Message-ID: <n1340738639.17671@msmailgw1.arlut.utexas.edu>

>

>Well,

>I guess we have a new batch of QRP-L folks on board so I will save them  
>looking up the Gap threads in the archives over the past three or so years,  
>and give the thumbnail version.

>

>The Gap vertical antennas are all simply dipoles, but vertical dipoles using  
>low loss linear decouplers for loading the different bands. These  
decouplers

>are akin to stubs of open wire line we have used for years as matching  
devices

>on various types of ham antennas. They just look more exotic when one  
side of

>them is the vertical mast itself. They effectively form capacitors to  
shorten

>various parts of the tubing to resonate on the higher bands.

>  
>The use of the asymmetric elevated vertical dipole is a common Broadcast Band  
>antenna in places such as Argentina, and a paper on such appeared in the USA  
>IEEE Antenna Transactions publication some years back. I got a copy of this  
>paper from the Gap booth at Ham Com one year . For Broadcast work, you want  
>to minimize ground losses, and have a good pattern in your coverage area,  
>which the vertical dipole brings without investment in radial systems and  
>ground screens. When you put the (40M) counterpoise wheel on the bottom of  
>the Gap Titan, you end up with not needing the same length each side of the  
>center insulator. Inside the Titan, (and I think other Gap models), there is  
>a coax stub for loading on the lowest band. To make the coax stub fit the  
>space inside the tubing, you have a capacitor across its upper end, with one  
>side and one side of the coax tied also to the upper dipole end. This  
matches

>the antenna to your feed for 80M use over a greater than 100 kHz band. Other  
>bands are full coverage. (less than 2:1 SWR)

>  
>Does it work? Yes indeed. As long as it is not coupling to something in the  
>near field it seems to bring a lot of nice QSO's and DX with its low angle  
>characteristic. It is stuck on a TV mast 6 feet above my back yard. As a  
>bonus, I have enjoyed good short skip QSO's within the state, or in nearby  
>states on 20M, where short skip was rare in the days I used low dipoles on  
>20M. I have heard of interaction as with any vertical, if you have something  
>like a metal flue chimney nearby of a resonant length like 30M quarter wave.  
>Its bandwidth on 80M exceeds the specs, thus I have not used a tuner for any  
>band. It is full band coverage on 40M and up, and a tuner is not even  
>recommended. It is quite sturdy, having survived 45 mph winds that I was able  
>to document, and more recently, some straight line winds that felled taller  
>trees and limbs all around it during the Jarell TX tornados up the road from  
>me. The bottom tubing is triple walled, and thus requires a couple of big  
>folks to walk up, or three ordinary folks like most of us.

>  
>I had an "all band" Hy Gain coil trap vertical before with ineffective ground  
>system. (I have mostly rocks under thin soil). The Gap works much better,  
>although a home made vertical could be made, for less money IF you had a  
>source for the aluminum tubing. (A BIG IF these days!!) If your time counts  
>for something, Gap solves the all band problem with a minimal investment of  
>time. However, I would like someone who has the time to sometime create a  
>home made vertical dipole set for all these bands, and see if the performance  
>is as good or ? I suspect the use of large tubing really is the full band  
>coverage secret, and just wire verticals hung from tree limbs might not equal  
>that aspect. But, one could use a cage of wire, and solve that issue.

>  
>Hope this inspires some antenna experimenters. I did not hear about any Gap  
>beams at Ham Com this year and I always ask if I can be a beta-test site when  
>I see Richard! I think the Sommer beam does use this type of  
>loading/decoupling for band changing. That is a mighty beam, and some  
day, if

>I ever get the space----

>

>72 Stuart K5KVH

>rohre@arlut.utexas.edu

>

>

>

>

>-----

>

>Date: Tue, 12 Aug 1997 09:24:55 -0700

>From: Ed Loranger <we6w@qsl.net>

>To: n6mm@earthlink.net

>Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

>Subject: [24756] Re: Special Foxhunt

>Message-ID: <33F08E57.281D@qsl.net>

>Mime-Version: 1.0

>Content-Type: text/plain; charset=us-ascii

>Content-Transfer-Encoding: 7bit

>

>Been Searchin' the fox too. Not a peep.

>

>As I faded in and out of conciousness I thought

>I heard someone calling him last night.

>

>-Ed Loranger

>--

>72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

>HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.

>QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok

>mailto:we6w@qsl.net <http://www.qsl.net/we6w>

>

>

>-----

>

>Date: Tue, 12 Aug 1997 09:20:12 -0700

>From: laura halliday <ve7ldh@direct.ca>

>To: qrp-1@Lehigh.EDU

>Subject: [24757] FAQs (was: Dan's MPF131)

>Message-ID: <33F08D3C.58B131A3@direct.ca>

>MIME-Version: 1.0

>Content-Type: text/plain; charset=us-ascii

>Content-Transfer-Encoding: 7bit

>

>This question (dual-gate MOSFETs) is one of a number that

>seem to come up over and over - do people suppose it's time

>for a QRP-L FAQ?

>

>A recent mailing from Mainline Electronics stated that the  
>production lifetime for the typical non-trivial component is  
>only a couple of years these days - far less than the time  
>that has elapsed since projects calling for 40673s were  
>published. Is it reasonable to expect projects to be  
>reproduceable indefinitely?  
>  
>If I really need a dual-gate MOSFET, I reach for my supply  
>of BF961s, purchased from Cricklewood and Les Cyclades...  
>--  
>Laura Halliday               "C'est une femme mutine, assez elegante,  
>ve7ldh@direct.ca   grave et legere, ayant le sens  
>Grid: CN89mg       du confort et du plaisir en tout."  
>                               - C. Deneuve  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 16:36:22 +0100  
>From: "Brian K. Short" <shortckt@primenet.com>  
>To: qrp-l@Lehigh.EDU  
>Subject: [24758] Scratch/Kit/Commercial (FS: 40m SST)  
>Message-ID: <3.0.1.32.19970812163622.007496dc@mailhost.primenet.com>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset="us-ascii"  
>  
>Perhaps opinions about the relative merits of  
>scratch vs kit vs commercial depend on who is  
>doing the buying, selling, or building?  
>  
>Some kit construction seems like the mere stuffing  
>of a PCB (perhaps followed by some debugging and  
>then -maybe- use on the air).  
>  
>Perhaps more noble is duplicating a design or combining  
>"building blocks" in a "scratch" fashion.  
>  
>Most noble (I guess) is RF circuit design (or trial and error)  
>to come up with a new thing.  
>  
>Non-working commercial rigs requiring repair, require all  
>steps of kit construction except PCB stuffing. These include:  
>studying and understanding the design, familiarization with  
>layout, appreciation of idiosyncrasies, solving a problem  
>(perhaps even systematically), and operating on the air. One  
>may also care to "modify" some portion to enhance operation  
>to personal tastes.  
>



>In terms of cost (if it is a criteria), a used commercial rig  
>\*may\* in fact be a better buy as anyone will likely agree that  
>buying an assembled automobile is far cheaper than buying the  
>parts separately (scratch) and there are some "kit" cars, but  
>that is a different story. (Though there are some interesting  
>"homebrew" cars that operate on alcohol or chicken manure, etc)  
>  
>What is this all about? I have a 40m SST, totally unbuilt, in  
>the box, ready to be sent out Priority Mail to a new owner...  
>  
>Anyone care to purchase it?  
>  
>Now, shall it be first come, lottery, discriminatory selection,  
>...  
>  
>(I'll decide)  
>  
>73, Brian  
>  
>  
> "Only the lead dog gets a change of scenery!"  
>Brian Short k7on@qsl.net <http://www.qsl.net/k7on>  
> 1994 E Laguna Dr Tempe, Az 85282 (602)839-3484  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 10:06:29 -0700  
>From: Ed Loranger <we6w@qsl.net>  
>To: psykey@okcforum.org  
>Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
>Subject: [24759] Re: Resonant speaker tube  
>Message-ID: <33F09815.78F5@qsl.net>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset=us-ascii  
>Content-Transfer-Encoding: 7bit  
>  
>Nice informative post Jim!  
>  
>How about a resonator tube with two nipples on top  
>where we can hook up wome surgical tubing and  
>stethoscope style headphones! You gave me this idea.  
>  
>Maybe someone can get and seal up a hi-Q 2inch diamater  
>resonator with speaker and solder some small tubes at the top  
>to attach the rubber tubing to? Bet that would be a  
>nifty experiment. Then maybe make the tubing a 'certain'

>length to optimize the set up?

>

>-Ed Loranger

>--

>72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

>HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.

>QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok

>mailto:we6w@qsl.net <http://www.qsl.net/we6w>

>

>

>-----

>

>Date: Tue, 12 Aug 1997 13:18:46 -0400

>From: "Bob Kellogg" <ae4ic@nr.infi.net>

>To: <psykey@okcforum.org>, "Low Power Amateur Radio Discussion"

<qrp-l@Lehigh.EDU>

>Subject: [24760] Re: Resonant speaker tube

>Message-ID: <199708121721.NAA19156@mh004.infi.net>

>MIME-Version: 1.0

>Content-Type: text/plain; charset=ISO-8859-1

>Content-Transfer-Encoding: 7bit

>

>All right, gang, let's get creative here.

>

>Why not design a resonant chamber, with the speaker in it, as Jim has done,

>but solder a small (1/8'-1/4") tube about an inch long through the bottom

>of the can? Then, get a cheap stethoscope from WalMart. Take the end off

>the stethoscope and slide the flexible tube on your resonator tube,

>connecting the stethoscope to the resonator. It should work like some of

>the phones used on airplanes. Lightweight on the head, fitting right in

>the ear canal, eliminating transient noise, etc., etc.

>

>CUL,

>Bob Kellogg, AE4IC, Greensboro, NC

>Prolably, but not nececelery. -- Benny Hill

>

>-----

>> OK...now, a tin-can cylinder would look kind of funny

>> sticking out each side of a pair of headphones. But...

>> since the Q depends on the ratio of length to diameter...

>> (and hard materials are better than soft ones) how about

>> making the resonant tubes out of large diameter copper

>> tubing? Then, they could be routed upward from the ears,

>> and curved inward to follow the contour of the head.

>> Anyone got any idea what to use as materials (besides

>> the copper tubing)? What kind of speaker-like thing

>> would be suitable? How could it be managed mechanically

>> (held in place on the head, comfortably and securely,

>> without any strain on the more delicate parts)?

>>

>> --Jim WB5UDE (Ugly Duckling Engineering)

>

>

>-----

>

>Date: Tue, 12 Aug 1997 13:35:12 -0400 (EDT)

>From: Chris Cartwright <ccart@dns.vidtel.com>

>To: QRP Reflector <qrp-l@Lehigh.EDU>

>Subject: [24761] Re: Resonant speaker tube

>Message-ID: <Pine.LNX.3.93.970812133036.1111A-100000@dns.vidtel.com>

>MIME-Version: 1.0

>Content-Type: TEXT/PLAIN; charset=US-ASCII

>

>On Tue, 12 Aug 1997, Ed Loranger wrote:

>

>> Nice informative post Jim!

>>

>

>Guys,

>

>B&G Micro has some speakers the size of a quarter for 4/\$1. I have some

>at home and will check the impedance. Seems if you use a smaller speaker

>the tubes would be shorter and headphones would look less like something

>out of a 50's sci-fi flick. I'll check on them when I get home, oh, usual

>disclaimer on B&G.... 72

>

>-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --

>-- N3XRV QRP WAS 17/9 (w/c) | ccart@erols.com --

>-- QRP-L #655 NORCAL #1891 QRP-ARCI #???? | http://dns.vidtel.com/~ccart --

>-- WIMPS Q's=04 30M=04 17M=00 12M=00 STATES=03/00/00 DX=00/00/00 QSL's=00 --

>

>

>

>-----

>

>Date: Tue, 12 Aug 1997 10:42:33 -0700

>From: Ed Loranger <we6w@qsl.net>

>To: Bill Hughes <WD6CCS@compuserve.com>

>Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

>Subject: [24762] Re: Pixie 2 xtal source request

>Message-ID: <33F0A089.3C2A@qsl.net>

>Mime-Version: 1.0

>Content-Type: text/plain; charset=us-ascii

>Content-Transfer-Encoding: 7bit

>

>I'm posting this request for Bill Hughes, WD6CCS who is new

>to the list.  
>  
>Bill and his Tech+ son are building some Pixie2's and would  
>like to get 40 Meter novice xtals.  
>  
>I've seen posts for Phoenix Xtals ? here before and group  
>buys.  
>  
>Can anyone Help Bill out?  
>Bill's email: <mailto:WD6CCS@compuserve.com>  
>  
>Thanks!  
>Ed Loranger  
>--  
>72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)  
>HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.  
>QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok  
><mailto:we6w@qsl.net> <http://www.qsl.net/we6w>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 10:57:14 -0700  
>From: Ed Loranger <[we6w@qsl.net](mailto:we6w@qsl.net)>  
>To: [ccart@dns.vidtel.com](mailto:ccart@dns.vidtel.com), [ae4ic@nr.infi.net](mailto:ae4ic@nr.infi.net)  
>Cc: Low Power Amateur Radio Discussion <[qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)>  
>Subject: [24763] Re: Resonant speaker tube  
>Message-ID: <[33F0A3FA.23B5@qsl.net](mailto:33F0A3FA.23B5@qsl.net)>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset=us-ascii  
>Content-Transfer-Encoding: 7bit  
>  
>Bob Kellogg wrote:  
>>solder a small (1/8'-1/4") tube about an inch long through the >bottom of  
the can? Then, get a cheap stethoscope from WalMart.  
>  
>Hey Bob, I beat you by 12 minutes on the Stethoscope idea! Hi!  
>  
>Chris Cartwright Wrote:  
>>B&G Micro has some speakers the size of a quarter for 4/\$1  
>  
>I've got some PC mountable microphones and maybe an old  
>modem speaker that might fit smaller resonant cavities.  
>Hmmm.... 4/\$1 sounds good though.  
>  
>-Ed Loranger  
>--  
>72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

>HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.  
>QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok  
>mailto:we6w@qsl.net http://www.qsl.net/we6w  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 97 14:08:00 EST  
>From: "Pat A. Taber" <pat@vtpo1.genrad.com>  
>To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>  
>Subject: [24764] RE: Resonant speaker tube  
>Message-ID: <33F06F1B@msgate>  
>  
>  
>>>solder a small (1/8'-1/4") tube about an inch long through the >bottom  
>of  
>>>the can? Then, get a cheap stethoscope from WalMart.  
>>  
>>Hey Bob, I beat you by 12 minutes on the Stethoscope idea! Hi!  
>  
>Why would stethoscope tubing not attenuate the same way the tin can/tuned  
>cavity does?  
>  
>>>>==>PStJTT  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 13:12:57 -0500  
>From: kreinbd@ccgate.dl.nec.com (David Kreinberg)  
>To: qrp-l@Lehigh.EDU  
>Subject: [24765] OLD "FIRE-BALL" XMTR  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset=US-ASCII  
>Content-Transfer-Encoding: 7bit  
>Content-Description: cc:Mail note part  
>  
>  
> Gang:  
>  
> In looking over the old 73 magazines I had, I noticed  
> an interesting set of articles in the Nov. 90 issue.  
>  
> Seems some excitement was generated when some hams  
> got together and made what was called the "Fire-Ball"  
> transmitter.  
>  
> Essentially, this was a microprocessor TTL oscillator

> keyed on and off. The oscillator was in the 10 meter  
> band (28.322 MHz?) and produced about 50 milliwatts,  
> or so. Very simple and (apparently) effective. This  
> was in the days of the last SS peak and the transmitter  
> worked miracles on a quiet band, so the article reported.  
>  
> Does anybody remember this little critter? Ever build one?  
> The two hams (sorry don't recall their names or calls) even  
> kitted these and had a little business going.  
>  
> Sounds like a simple, neat project to do when the sun  
> starts cooperating!  
>  
>  
> 73 de Dave NR3E/5  
> nr Dallas, TX  
> qrp-1 #25, ARRL  
> WIMPS: Qs=055 30m=042 17m=08 12m=05 States=027/05/04  
> DX=02/00/01  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 14:29:39 -0400  
>From: Ronald McConnell <rcmcc@lucent.com>  
>To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>,  
> "'bmug@qwl.com'"@nss2.CC.Lehigh.EDU, <bmug@qwl.com>  
>Cc: "'Ronald McConnell'" <rcmcc@lucent.com>  
>Subject: [24766] Map Help, MAPS, Place Names: MORE  
>Message-ID: <01BCA72C.2B4F7B00@adc\_lab9.amc.bell-labs.com>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset="us-ascii"  
>Content-Transfer-Encoding: 7bit  
>  
>  
>I checked my bookmarks for more web sites for  
>obtaining Latitude and Longitude for places  
>(mostly cities).  
>  
> <http://www.etak.com>  
>  
> <http://www.BCCA.org/misc/qiblih/latlong.html>  
>  
> <http://tiger.census.gov/cgi-bin/gazetteer>  
>  
> <http://www.mit.edu:8001/geo>  
>  
>and the most different, IP address to Lat/Long

>  
> <http://cello.cs.uiuc.edu/cgi-bin/slamm/ip211>  
>  
>  
>Cheers, 73,  
>  
>Ron McConnell, w2iol  
>  
>PS: I really don't spend all my time surfing the web.  
>I just accumulated these and the others over a period of time.  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 11:31:14 -0700  
>From: Ed Loranger <we6w@qsl.net>  
>To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
>Subject: [24767] Re: Resonant speaker tube  
>Message-ID: <33F0ABF2.231B@qsl.net>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset=us-ascii  
>Content-Transfer-Encoding: 7bit  
>  
>Pat A. Taber wrote:  
>  
>> Why would stethoscope tubing not attenuate the same way the tin can/tuned  
>> cavity does?  
>>  
>> >>==>PStJTT  
>  
>If I understand you correctly Pat, you are asking if the  
>tubing could stand, on its own, as a filter. I would  
>expect it to be a poor resonator, (tubing alone) due  
>to the resiliency of the tubes. Very low Q. But cut to  
>a specific length, I would expect good delivery of the  
>morse code audio as coupled from the speaker-driven cavity.  
>  
>-Ed Loranger  
>--  
>72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)  
>HW-8;OHR-100, Pixie2, Johnson Viking II w/VF0.  
>QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok  
><mailto:we6w@qsl.net> <http://www.qsl.net/we6w>  
>  
>  
>-----  
>

>Date: Tue, 12 Aug 97 18:38:49 UT  
>From: "Ed Manuel" <n5em-qrp@msn.com>  
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
>Subject: [24768] RE: OLD "FIRE-BALL" XMTR  
>Message-ID: <UPMAIL15.199708121838410936@msn.com>  
>  
>Remember, Heck! We have been using them regularly for the last 5 or 6  
years.  
>We mate them up with a morse id'er and send them up on high-altitude ham  
radio  
>balloons to the "edge of space". Cheap beacons that take a lickin' and keep  
>on tickin'.  
>  
>Ed, N5EM  
>  
>  
>  
>-----Original Message-----  
>From: owner-qrp-1@Lehigh.EDU On Behalf Of David Kreinberg  
>Sent: Tuesday, August 12, 1997 1:13 PM  
>To: Low Power Amateur Radio Discussion  
>Subject: OLD "FIRE-BALL" XMTR  
>  
>  
> Gang:  
>  
>[] (snip)  
> Does anybody remember this little critter? Ever build one?  
> The two hams (sorry don't recall their names or calls) even  
> kitted these and had a little business going.  
>  
> Sounds like a simple, neat project to do when the sun  
> starts cooperating!  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 07:46:42 +0100  
>From: "Frank, G3YCC." <g3ycc@gqrpclub.demon.co.uk>  
>To: mgemm@mtechnologies.com  
>Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
>Subject: [24769] Re: Key pictures on the web  
>Message-ID: <Y7zbtEASbA8zEw1z@gqrpclub.demon.co.uk>  
>MIME-Version: 1.0  
>  
>In message <199708112037.0AA21462@bobcat.sni.net>, Marshall Emm  
><mgemm@mtechnologies.com> writes



>>I've put images of some of my more interesting keys on the web sit.  
>There are also quite a nymber on my web site too, for info.  
>Frank, G3YCC GQRP Club 042  
>Packet: G3YCC@GB7HUL  
>QRP Web Page: <http://www.gqrpclub.demon.co.uk>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 15:33:59 EDT  
>From: wa5whn@juno.com  
>To: qrp-1@Lehigh.EDU  
>Cc: w7el@teleport.com, n5zgt@swcp.com  
>Subject: [24770] EZNEC Software / N5ZGT YHOTY '97 award winner/  
>Message-ID: <19970812.133259.7447.1.wa5whn@juno.com>  
>  
>qrp-lers,  
>  
> First, let me state that I have no financial interest in any  
>enterprise, represented by Roy Lewallen, W7EL.  
>  
> I had purchased the EZNEC software, from Roy-W7EL, after listening to  
>W6RCA's presentation @ Ft. Tuthill (Check out KI7MN's URL; photos taken @  
>Ft. Tuthill).  
>  
><http://www.dancris.com/~ki7mn/>  
>  
>Since I occasionally wander up into the 10+ GHz part of the spectrum, I  
>had thought I might like to model some of those systems. However, one  
>caveat, EZNEC does not model any other geometry, other than circular (ie:  
>circular wires, vs. stripline-usually, non- circular), but (Hey, I am  
>from New Mexico, I am allowed to cheat. That's what I was taught in the  
>Albuquerque Public School's system, Outcome based Education) if You abuse  
>a HP Analyzer regularly, You can read  $Z_o$  ( $R \pm jX$ ), directly off of the  
>analyzer, @ a specified frequency, and feed that data into the EZNEC  
>software (segments & loads), and it works. It scales rather nicely, from  
>1 MHz to 10 GHz, with EZNEC.  
>  
>  
>  
> Roy has a demo (ELNEC) that You can download from his Web Site (any  
>search engine will take You there, keyword: W7EL), plus, You must read  
>the 400K bytes file (EZNEC.txt) first. I would like to suggest that Roy  
>place that one file (EZNEC.txt) on his web page, since that allows You to  
>really understand what this software is capable of modeling. EZNEC sells  
>for \$89.00 (USA) postpaid from W7EL. He does use the US Postal Service  
>;-) . Contact Roy, not me, if You are interested in the software, via  
>the internet, w7el@teleport.com.

>  
><http://people.delphi.com/cecilmoore/>  
>  
>"Subject shift (standby for immediate subject shift, fasten Your' safety  
>belts, please bring Your' mindset into an upright position)"  
>  
>"Worldradio", Sept., '97 issue, back cover. Anyone notice N5ZGT on the  
>back page ? Also, I have a photo of N5ZGT, taken in '96, in Riley, NM,  
>during the NorCal QRPTTF (Yes, in the photo, to Brian's left is KI6DS,  
>and right behind him is NA5N). Brian will be in Huntsville, Alabama, Aug.  
>16 & 17, 1997 (Contact WB4KKA for details), plus Albuquerque, NM, Aug. 23  
>& 24 (Contact KC5NZR for details) to attend both Hamfests. Well done  
>Brian, for becoming this year's YHOTY award winner.  
>(Young\_Ham\_of\_The\_Year).  
>  
><http://members.aol.com/JayMiller/index.html>  
>  
>  
>  
>  
>  
>I do hope to work all of You during the New England QRP Club's "QRP  
>AField", Sept. 20th.  
>  
>  
>We will return control of Your' screen to You now. ("Outer Limits")  
>  
>  
>72...Jay, WA5WHN DM65qd  
>  
>  
>-----  
>  
>Date: 12 Aug 97 15:39:57 EDT  
>From: "W. D. Lindsey" <70511.3041@CompuServe.COM>  
>To: "INTERNET:we6w@qsl.net" <we6w@qsl.net>, QRP-L Discussion Group  
><QRP-L@Lehigh.EDU>  
>Cc: "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@CompuServe.COM>  
>Subject: [24771] Re: Special Foxhunt  
>Message-ID: <970812193957\_70511.3041\_IHD68-1@CompuServe.COM>  
>  
>Ed:  
>  
>I might be the guilty party. After searching for him for two straight nights  
>with no sign of The Chuck....I decided to see if I could somehow flush him  
>out  
>of hiding. Maybe send a hunting dog close enough to make him jump out. So I  
>called him a couple of times. But it didn't work. Nuts. Oh well!  
>

>But I will be in the hunt again tonight, hoping...  
>  
>72/73,  
>--Doc/K0EVZ qrp-1 861  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 15:03:37  
>From: Steven Weber <kd1jv@moose.ncia.net>  
>To: qrp-1@Lehigh.EDU  
>Subject: [24772] Re: Scratch/Kit/Commercial  
>Message-ID: <3.0.1.16.19970812150337.2f0f97b4@mailhost.ncia.net>  
>Mime-Version: 1.0  
>Content-Type: text/plain; charset="us-ascii"  
>  
>Hi All,  
>  
>I've been giving this subject some thought since Preston brought it up.  
>Time for my \$0.02.  
>  
>On the surface, it can look like kits are a rip off. Typicly you are paying  
>about twice what the parts cost. BUT, are you really?  
>  
>Often a kit will have parts that are not easy to get in single quantities at  
>a resonable price. Say you need a five dollar IC, but can only get it from  
>a main line distributor with a fifty dollar minimum and has sales reps that  
>don't want to talk to you unless you have a company name. Don't forget the  
>shipping and handling costs. These can eat you alive.  
>  
>Many of todays projects need a micro controller. Are you really willing to  
>pay for a programmer, development software and learn to write assembly code?  
>Fun to do if you are so inclined, but much more cost effective to buy a  
>programmed part from someone who has already made that investment.  
>  
>Even if you have the ability and resources to build from scratch, it can be  
>worth while buying a kit. Even something as simple as an audio amplifier.  
>You have all the parts you need in one bag, they fit on the board and you  
>do get a nice pc board to build it on. In the long run, you save time,  
>effort and get a nice looking finished product.  
>  
>I consider myself a hardcore build-it-from-scratch homebrewer. That did not  
>stop me from getting a WM20 from Small Wonders Lab. It was something I  
>probably would not have ever gotten around to doing myself. I'm looking at  
>the OHR power meter and the AADC cap/inductance meter for the same reason.  
>Sure I could do it myself, but for not much more money, maybe even less, I  
>can get it in an easy to build form and save myself a lot of time and

effort.

>

>Design and build it from scratch? Sure, go for it. It's lots of fun and a  
>good learning experience. Don't expect to save money though. In the long  
>run, it can cost a bundle.

>

>Build a kit? It's a good way to go and still save over a commercial  
>prebuilt unit. The savings in time and effort can be significant.

>

>>From time to time, I like to kit up one of my better projects for resale. I  
>do this for a couple of reasons. The up front costs of making sure it uses  
>available parts and making it reproducible are considerable. That even  
>discounts the extra time and effort. But, the rewards are good. Most of  
>all, I like to see my babies reproduce. It gives others a chance to build  
>something useful they might not otherwise have done. It gives me an excuse  
>to buy nice looking boards and have a good looking version myself. I sure  
>the heck don't do it for the money. By the time it's all said and done, I  
>get maybe 25 cents an hour. Even that might be optimistic. I'm sure the  
>other small time kit suppliers here will agree with me. It's not the money,  
>it's the nice feeling you get when someone says, hey, works great, glad I  
>built one, thanks.... (most don't say anything though, this I take as a  
>good sign. A quiet camper is a happy camper... )

>

>73,

>

>Steve, KD1JV....In the White Mountains of New Hampshire

>

>"Melt Solder"

>

>

>-----

>

>Date: Tue, 12 Aug 1997 16:34:30 -0400

>From: rerobins@unccvm.uncc.edu (Rick Robinson)

>To: qrp-1@Lehigh.EDU

>Cc: kjoseph@dns.ida.net

>Subject: [24773] Re: [Mobile/Portable] Lowest Priced Homepage Designer On  
The Net!

>Message-ID: <v02130503b0160aa5a34f@[152.15.144.13]>

>Mime-Version: 1.0

>Content-Type: text/plain; charset="us-ascii"

>

> <snip> <snip>

>>Here At Homepage Designers Co. our goal is to see your dream page become a  
><snip> <snip>

>

> Blah Blah .... ad infinitum, ad nauseum!

>

```
>This really must cease!  M/P is becoming a spam ops dream list.  I sure
>hope kjoseph@dns.ida.net is not a ham.  Whoever he is, I hope he gets a
>mailbox full.  He probably works with Svetlana.
>
>73,
>
>Rick kf4ar
>
>
>
>
>-----
>
>Date: Tue, 12 Aug 1997 17:03:57 +0600
>From: Rick Powell - WB6JBM <ripowell@mpna.com>
>To: qrp-1@Lehigh.EDU
>Subject: [24774] Re: [Mobile/Portable] Lowest Priced Homepage Designer On The
> Net!
>Message-ID: <1.5.4.32.19970812110357.002b3d3c@smtp.mpna.com>
>Mime-Version: 1.0
>Content-Type: text/plain; charset="us-ascii"
>
>with an address of @dns.ida.net it removes all doubt from my feeble mind...
>this from address should be bounced!
>the best thing to do is send mail to hostmaster@ida.net and inform him of
>the spamming activities being performed using his DNS server...
>/rick
>
>At 04:34 PM 8/12/97 -0400, you wrote:
>> <snip> <snip>
>>>Here At Homepage Designers Co. our goal is to see your dream page become a<
>><snip> <snip>
>>
>> Blah Blah .... ad infinitum, ad nauseum!
>>
>>This really must cease!  M/P is becoming a spam ops dream list.  I sure
>>hope kjoseph@dns.ida.net is not a ham.  Whoever he is, I hope he gets a
>>mailbox full.  He probably works with Svetlana.
>>
>>73,
>>
>>Rick kf4ar
>>
>>
>>
>>
>>
>Argonaut 505 - MFJ 9020 - 38 Special
```

>http://www.mpna.com/ripowell ripowell@mpna.com  
>WB6JBM/8/QRP Richard Powell  
>QRP-L - #1118 Cincinnati, OH  
>TENTEN - 13044  
>  
>  
>  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 14:02:02 -0700 (MST)  
>From: Chris Trask <ctrask@primenet.com>  
>To: Rick Robinson <rrobins@unccvm.uncc.edu>  
>Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>,  
webmaster@unccvm.uncc.edu, postmaster@unccvm.uncc.edu, abuse@unccvm.uncc.edu  
>Subject: [24775] Re: [Mobile/Portable] Lowest Priced Homepage Designer On  
The Net!  
>Message-ID: <Pine.BSI.3.96.970812135944.26966A-1000000@usr07.primenet.com>  
>MIME-Version: 1.0  
>Content-Type: TEXT/PLAIN; charset=US-ASCII  
>  
>  
>That's funny: Since when does an educational ISP allow commercial  
>advertising and spamming?  
>  
>Check out that domain address.  
>  
>On Tue, 12 Aug 1997, Rick Robinson wrote:  
>  
>> <snip> <snip>  
>> >Here At Homepage Designers Co. our goal is to see your dream page  
become a<  
>> <snip> <snip>  
>>  
>> Blah Blah .... ad infinitum, ad nauseum!  
>>  
>> This really must cease! M/P is becoming a spam ops dream list. I sure  
>> hope kjoseph@dns.ida.net is not a ham. Whoever he is, I hope he gets a  
>> mailbox full. He probably works with Svetlana.  
>>  
>> 73,  
>>  
>> Rick kf4ar  
>>  
>>  
>>

>  
> I gotta go.

>  
>                   Regards,

>  
>                   Chris

>  
>                   Circuit Design for the  
>                   RF Impaired  
>                   Chris Trask / N7ZWY  
>                   Principal Engineer  
>                   ATG Design Services  
>                   P.O. Box 25240  
>                   Tempe, Arizona 85285-5240  
>                   Technical Editor,  
>                   QRP Quarterly  
>                   QRP ARCI 9464  
>                   Email: ctrask@primenet.com

>  
>                   Graphics by Loek Frederiks

>  
>  
>  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 14:20:14 -0700 (MST)  
>From: Chris Trask <ctrask@primenet.com>  
>To: Rick Robinson <rrobins@unccvm.uncc.edu>  
>Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
>Subject: [24776] 000000PS!  
>Message-ID: <Pine.BSI.3.96.970812141658.26966D-100000@usr07.primenet.com>  
>MIME-Version: 1.0  
>Content-Type: TEXT/PLAIN; charset=US-ASCII

>  
>  
>Oooops!

> Sorry, but I responded to the wrong address. Should have been  
>the previous posting.

>  
>On Tue, 12 Aug 1997, Rick Robinson wrote:

>> >

>> > This really must cease! M/P is becoming a spam ops dream list. I sure  
>> > hope kjoseph@dns.ida.net is not a ham. Whoever he is, I hope he gets a  
>> > mailbox full. He probably works with Svetlana.

>> >  
>> > 73,  
>> >  
>> > Rick kf4ar  
>> >

>  
>  
>                   Regards,

>  
>                   Chris

>                   Circuit Design for the  
>                   RF Impaired

>                   Chris Trask / N7ZWY  
>                   Principal Engineer  
>                   ATG Design Services  
>                   P.O. Box 25240  
>                   Tempe, Arizona 85285-5240

>                   Technical Editor,  
>                   QRP Quarterly  
>                   QRP ARCI 9464

>                   Email: ctrask@primenet.com

>  
>                   Graphics by Loek Frederiks

>  
>  
>  
>  
>  
>  
>-----  
>  
>Date: Tue, 12 Aug 1997 14:22:16 -0700 (MST)  
>From: Chris Trask <ctrask@primenet.com>  
>To: Rick Robinson <rrobins@unccvm.uncc.edu>  
>Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
>Subject: [24777] Re: [Mobile/Portable] Lowest Priced Homepage Designer On  
The Net!  
>Message-ID: <Pine.BSI.3.96.970812142041.26966E-100000@usr07.primenet.com>  
>MIME-Version: 1.0  
>Content-Type: TEXT/PLAIN; charset=US-ASCII  
>  
>  
>Rick-  
> I owe you an apology for having replied to YOUR address instead  
>of the original spammer, who has shown up on three maillists so far.  
>The error was mine, and was unintentional.  
>



> I gotta go.

>

>                               Regards,

>

>                               Chris

>

>                               Circuit Design for the  
>                               RF Impaired

>    / If you understand it, \  
>   / then it's obsolete! /

>   \ -----,-----'                   Chris Trask / N7ZWY

>   \_ | /                               Principal Engineer

> oo\                               ATG Design Services

> (\_\_) \                               P.O. Box 25240

>    \    \    \    \    \               Tempe, Arizona 85285-5240

>    \    \    \    \    \               Technical Editor,  
>    \    \    \    \    \               QRP Quarterly

>    \    \    \    \    \               QRP ARCI 9464

>    \    \    \    \    \               Email: ctrask@primenet.com

>    \    \    \    \    \               c\_\_; c\_\_; '-...'>.\_\_

>

>                               Graphics by Loek Frederiks

>

>

>

>

>

>-----

>

>End of QRP-L Digest 816

>\*\*\*\*\*

>-----

>

-----

Date: Wed, 13 Aug 1997 10:05:00 -0500

From: Bob Tellefsen-CNSE97 <Bob\_Tellefsen-CNSE97@email.mot.com>

To: MNHopkins@aol.com (Receipt Notification Requested)

Cc: qrp-l@Lehigh.EDU

Subject: [24833] Q-multiplying heresy

Message-ID: <M2015950.001.v6vr0.1.970813181902Z.CC-MAIL\*/OU=LMPCC4/OU=ILBB/  
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Yes, Michael, the little critters do work, and rather well in the right  
circumstances. I used a Heathkit Q multiplier on my Collins 75A2 to back up its  
single-crystal filter, and my Drake 2B. Worked very well.

In high school I had an old Hallicrafters S40A with no IF filtering, so make the first IF stage regenerative. It was tricky to control, but did work and improved the cw selectivity enormously.

In Norway, in the 50's, I met a Norwegian ham who built his own receiver. Used a regenerative RF stage, regenerative mixer stage, and regenerative IF stage. Oodles of gain, great image rejection, and good IF selectivity. And a bunch of knobs on the front panel to tweak to keep it all in harmony.

73, Bob N6WG

Open letter to Bob and other Q-Multiplier heretics:

You are challenging ham radio political correctness talking about Q-multipliers!

Sure they work, but they are not specifically for Sacred Sideband, and, worse,

(To paraphrase Professor Harold Hill in The Music Man)

"When I'm talking about Q, I'm lookin' at you and sayin' JONES!

"That's right, friends, Jones, Frank Jones from California...the biggest threat to ARRL complacency and orthodoxy ever seen....

"That's right, folks, evil Frank Jones who made a one-tube 5 Meter Transceiver and a regenerative superhet that did not require two or three parts made of Unobtainium...

"So keep it quiet, boy. Don't let it get out. We're all in the boat here. Don't rock it."

Need a more scientific, in vivo example?

Dayton, Ohio, 1995, QRP forum, NN1G speaking, a question:

"Instead of trying to match ever more xtals to get CW selectivity, why not simply induce regeneration?"

"I don't want to get into that."

73 de ab5l, michael in dallas, one of the enlightened ones who has heard the "pop."

MNHopkins@AOL.com

----- Forwarded with Changes -----

From: MNHopkins@aol.com@INTERNET at EMAIL  
Date: 8/13/97 7:44AM  
To: Tellefsen Bob CNSE97 at CA05LMPS  
\*cc: Boatanchors@theporch.com@INTERNET at EMAIL  
Subject: Q-multiplying heresy

-----

-----

Date: Wed, 13 Aug 1997 14:32:52 -0400  
From: Ken Newman <n2cq@comten.com>  
To: QRP-L@Lehigh.EDU  
Subject: [24834] SST: User Input?  
Message-ID: <1.5.4.16.19970813182820.277fd19e@mail.comten.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi Group,

I have acquired an SST for 40m (WATCH OUT SP SPRINTERS!). Re-reading the N6KR article in the Spring QRPp, and the schematic, makes me wonder how it has turned out in regards to BCI from the 40m broadcasters. I still have my 49er in use but almostly always in the daytime hours. Have any users come across 40m BCI from broadcasters? Anything else you can add + or - on the SST? Thanks much in advance.

72/73,  
Ken Newman, N2CQ  
Woodbury, NJ  
N2CQ@Comten.com

-----

Date: Wed, 13 Aug 1997 11:30:31 MST  
From: Mike Robinson <miker@comlinear.nsc.com>  
To: qrp-l@Lehigh.EDU  
Subject: [24835] Filter Design Applet  
Message-ID: <199708131830.LAA10664@gecko.nsc.com>

<http://www.cmsa.wmin.ac.uk/~artur/Poly.html>

Just saw this Java Applet filter designer in a magazine. Is it any good?

=====  
73 Michael N7MR <http://www.frii.com/~michael>  
Michael.Robinson@nsc.com michael@frii.com  
QRP-L #126 Norcal #857 CQC #180  
=====

-----  
Date: Wed, 13 Aug 1997 12:55:02 -0700 (PDT)  
From: Ray Anderson <Raymond.Anderson@Eng.Sun.COM>  
To: qrp-l@Lehigh.EDU, miker@comlinear.nsc.com  
Subject: [24836] Re: Filter Design Applet  
Message-ID: <199708131955.MAA25663@radium.eng.sun.com>  
MIME-Version: 1.0  
Content-Type: TEXT/plain; charset=us-ascii  
Content-MD5: o604H6qOW+29T8gth5oRBw==

I checked it out. The applet designs a polyphase type low pass  
DSP filter.

Probably not too useful for the average homebrewer unless  
they are really experienced in realizing DSP filters in  
software.

BTW, the Java implementation of the program seems to leave  
a bit to be desired, IMHO.

72,  
Ray WB6TPU  
raymonda@radium.eng.sun.com

> Date: Wed, 13 Aug 1997 11:30:31 MST  
> From: Mike Robinson <miker@comlinear.nsc.com>  
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
> Subject: Filter Design Applet  
> X-Listprocessor-Version: 8.1 beta -- ListProcessor(tm) by CREN  
>  
>  
> <http://www.cmsa.wmin.ac.uk/~artur/Poly.html>  
>  
> Just saw this Java Applet filter designer in  
> a magazine. Is it any good?  
>  
>  
> =====

> 73 Michael N7MR <http://www.frii.com/~michael>  
> Michael.Robinson@nsc.com michael@frii.com  
> QRP-L #126 Norcal #857 CQC #180  
> =====

-----  
Date: Wed, 13 Aug 1997 21:44:52 +0100  
From: ea8yu Goran <rodriguez@jet.es>  
To: qrp-l@Lehigh.EDU  
Subject: [24837] Re: Automatic Lightning Protection  
Message-ID: <1.5.4.32.19970813204452.0069f0dc@jet.es>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 17:46 11/08/97 -0600, you wrote:

>Gang:

>

>I hate to re-post copywriten material, but this announcement seemed so  
>relevent to many past discussions.... Now if I only knew what it cost....

Hi!

A year or two ago I bought a simple system from the US, if anyone is interested I can find out from where, to help us with lightning at the observatory at 2400 meter height above the ocean.

It is a receiver with two sensivity positions, which sounds an alarm and switches a relay when it hears thunder. Low position a few kilometers away, high sensitivity position I think it is about 15 km away.

It works ok and what you do then with the relay is of course your problem.

Saludos

Goran

-----  
Date: Wed, 13 Aug 1997 14:10:57 -0600  
From: Jess Gypin <jgypin@bi.com>  
To: psykey@okcforum.org

Cc: qrp-1@Lehigh.EDU  
Subject: [24838] Re: learning CW operating procedures  
Message-ID: <33F214D1.54EE@bi.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Jim Glover wrote:

>  
> > After you get  
> > the swing of things, you may even learn the secret qrp technique of  
> > snatching stations off other peoples pileups... whoops, looks like  
> > I blew it again ;-). Note: don't do this unless you are comfortable  
> > with contest material at around 30wmp, otherwise you will be making  
> > a nuisance of yourself.  
>  
> When I got into amateur radio around 20 years ago, I did only a bit  
> of CW work, mostly around 20 years ago. For the next few years after  
> that, I guess I made a CW contact or two every few months, for about  
> the next 5 years. Until a couple of weeks ago, I didn't work any  
> CW for 15 years or so. So, I'm quite inexperienced at CW operating.  
>  
> And now, when I read this sort of thing, it helps confirm a suspicion  
> I've had...which is that working DX is mostly for experienced CW ops,  
> and that the only road to experience, is to be on the air doing it  
> for long enough to pick it up by monitoring others who already know  
> the ropes.  
>  
> Over the last couple of weeks, I've enjoyed about 20 CW qso's, and  
> each of them has been with a US station, and has been a "formula"  
> QSO (exchange RST, QTH, name, optional rig, ant, and WX info, and  
> then, 73). In about 90% of these QSO's, the other station has cut  
> it off with 73, as soon as the "basic info" has been exchanged. I  
> was the one initiating the end of the contact, only when QSB had  
> rendered the other station impossible to copy.  
>  
> I posted here about a week ago, wondering if anyone could recommend  
> stuff to read about CW operating procedures (other than the ARRL  
> operating manual, which I do need to buy--but which, I have been  
> told, offers advice which in many respects bears little resemblance  
> to what is actually heard on the air). I received no responses to  
> that post.  
>  
> So...I guess what I'm doing now, is trying a little more long-winded  
> approach. If I get no responses this time, I'll drop the subject  
> and hush about it! :)  
>  
> One thing I'd enjoy doing, is having more CW ragchew. I do realize

> that this would require some patience (both on my part, and  
> especially perhaps for the other station) since it's easier to  
> copy the formula QSO at a little faster speed (since 50% of what's  
> sent is so predicatable...one simply must listen to "fill in the  
> blanks"). Talking more, and slowing down the code speed a bit,  
> would eat up a bunch of time (a luxury few of us have these days,  
> it seems). But...like DX, I've heard that ragchew CW \*does\*  
> exist...and I'd like to find some of it! :)  
>  
> I'd also like to work some DX, too...but I guess I have a lot to  
> learn about the very different way that's done.  
>  
> I wonder if there are certain bands, frequencies, and/or times of  
> day, that I should try, to maximize my chances of catching DX and  
> ragchewers on CW? And what sorts of alternative CW operating  
> procedures might I need to become familiar with?  
>  
> So...would anyone care to recommend things I should read, to help  
> me learn faster than by trial and error on the air? Or would  
> anyone care to haulf off and write a few paragraphs of advice,  
> for the benefit of me and anyone else on the list who's wondering  
> how to learn not only the code, but the operating procedures to  
> go with it?  
>  
> --Jim

Just a short answer. As for the ragchew, try the WARC bands. 30 meters and 17 meters are great for that. Also try the upper end of 40 meters near the QRP freq of 7040. I don't seem to have much trouble finding a ragchew there. As far as what to talk about, try throwing the other op some unusual questions like, where were you born, what is your Mother's name, what do you do for a living right after the first exchange, that always throws them for a loop!

As far as the DX goes, read "The Complete DXer". This is the best book by far that I have ever read on chasing DX and the proper techniques. It covers SSB as well as CW, but all of the principles apply.

If you have any trouble with finding a ragchew, let me know. I'll rag with ya!

Jess N0TFI  
<http://www.concentric.net/~jessqrp>  
[jessqrp@concentric.net](mailto:jessqrp@concentric.net)  
[n0tfi@qsl.net](mailto:n0tfi@qsl.net)

-----  
Date: Wed, 13 Aug 1997 16:31:06 -0700  
From: n4oln@juno.com  
To: qrp-1@Lehigh.EDU  
Subject: [24839] CQC Summer 1997 QSO Party  
Message-ID: <19970813.163118.10894.0.n4oln@juno.com>

Summer 1997 QSO Party

Date/Time: Sunday, August 24, 1997 1800 to 2359 UTC

Exchange: RS(T), State/Province/Country, First Name, and Member  
# if CQC member, power output if not ie: 579 C0 Jim NR 04 Suggested  
frequencies  
CW 1825, 3560, 3710, 7040, 7110, 14060, 21060, 21110, 28060, 28110 SSB  
1910, 3985, 7285, 14285, 21385, 28385 No contacts on 30, 18 and 12 meters  
allowed. Classes: Single Band, Multi-band, Novice/Tech (all single  
operator  
only)

QSO Points:

CW- CQC member 6 pts, non-member 4 pts

SSB- CQC member 3 pts, non-member 2 pts

The same station may be worked on different bands for additional QSO  
points and multipliers. Contacts on the same band using a different mode  
counts for QSO points, but not as an additional multiplier.

Multipliers:

States/Provinces/Countries worked.

Names: Unique First Initials. Total of first names from Name  
sheet.



One first name per letter of the alphabet. Name must be same as  
Callbook,  
QSL card, or name commonly known by.

Score:

Total Score = QSO Points x Multipliers x Names

\*Bonus points for working Club Station W0CQC - Add 1000 points  
to your FINAL score for working W0CQC

Power: Stations must use 5 watts or less output, CW or SSB. There  
are no power multipliers.

Awards: To Be Determined, Highest Score in each class .

Submit log showing: Band Mode Time UTC Station Called RST Rc'd SPC Rc'd  
Name Rc'd Memb#Rc'd (or pwr out if not CQC member) Mult. Points

For sample Log, and Name sheets, send SASE and one unit first class  
postage to: Jim-KG0PP-CQC Contest

P.O.Box 31575

Aurora, CO 80041-0575

----- End forwarded message -----

-----

Date: Wed, 13 Aug 1997 15:48:08 EDT  
From: wb2vuo@juno.com (William K Hibbert)  
To: qrp-1@Lehigh.EDU

Subject: [24840] Re: Inexpensive Antenna Mast  
Message-ID: <19970813.154716.2063.0.wb2vuo@juno.com>

----- Begin forwarded message -----

From: jerome\_peters@el.nec.com  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: Inexpensive Antenna Mast

-----< snip  
>-----

Description:

About 10'6" long

About 1 and 1/8" in diameter.

Some type of galvanized metal.

At one end of each pipe the diameter is reduce for about 5" so they  
can be fit together.

-----< snip  
>-----

CAUTION: I don't think I'd trust this for anything heavy, or with a  
rotor.

Regards,

Jerome Peters  
KC6ENE  
Santa Clara California

----- End forwarded message -----

Yep, nothing heavy, but it is GREAT for dipoles and lightweight VHF/UHF  
antlers.

It also bends easily, takes a set and STILL stays up. My 40' Chain-link  
rail mast is shaped like a surrealist sculpture, is known int he local  
ham community as "The Spaghetti Mast", and has survived 4 winters here  
with winds >100 KPH each winter...

About 1/2 the price of TV-mastm but it takes some doing to get 40 feet up  
in a straight line. One of the other masts is over at Lou, KA2DQA's, has  
been bent since the day we tried to swing 30 feet of it up from the  
ground (didn't work), but holds his 80/40 Harmonic Allband Shallow Angle  
Inverted Vee (tm, NOT!) up just fine...

I like the thought about using them for verticals. I'll have to try

that. The galvanized takes solder (with a torch) just fine...

72/73, Keith, WB2VUO, QRP-L #582, scQRP 40, 100% QRP  
Tech Specialist (ARRL/WNY), ARRL Life Member,  
Trustee, NQ2RP/B 10 Mtr QRP Beacon (QRP @ 28.287 MHz)  
"In the Depths of the Great Bergen (NY) Swamp...FN13ac"  
Packet - wb2vuo@w2im.#wny.ny.usa.noam \*\*\* Email - wb2vuo@juno.com  
SnailMail - CBA \*\*\* Phone - 716.494.1239

"My Night Light runs more power than my Rig!!!"

-----  
Date: Wed, 13 Aug 1997 13:36:12 -0700 (PDT)  
From: Laird Jerman <ljerman@earthlink.net>  
To: qrp-l@Lehigh.EDU  
Message-ID: <199708132036.NAA22472@germany.it.earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

info

-----  
Date: Wed, 13 Aug 1997 21:36:09 -0700  
From: Harvey Hetland <n6mm@earthlink.net>  
To: qrp-l@Lehigh.EDU  
Subject: [24842] P43HK/QRP, 21059 kHz , 2133Z  
Message-ID: <33F28B39.2DF5@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

P43HK/QRP, Hubert, using 2W and a "homebrew" Sierra is on 21058.7 kHz at 2133Z and was worked by a WB4 prior to my working him with my 4 watts from California. He is also a member of FISTS (#2989). 15m is showing some QRP life. Anyone heard that wiley, rascal fox (K5F0)?

73, Harvey, N6MM.

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End of QRP-L Digest 817

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